

Minutus

Botanical Notes

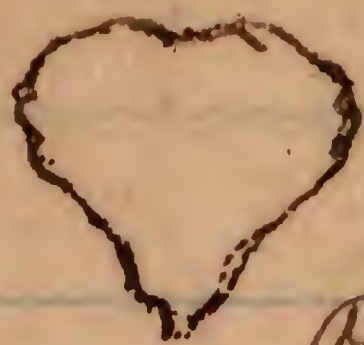
No. 2.

Q. me. te. se.




No. 123.

Small tree 8 in. in diam., 18° high.
Bark rather smooth, brown. Leaves arranged
like those on young elm branches.

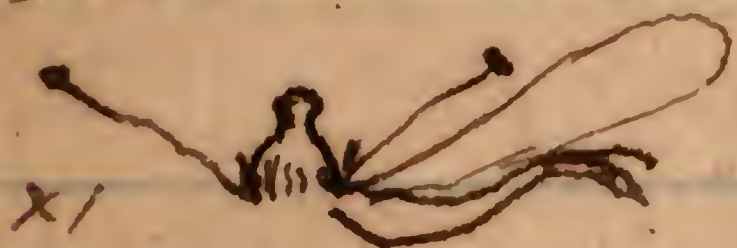


Petal x1 pure white, somewhat
crenate at outer angles.

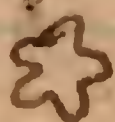
Petal 5, hypog. Cor. reg.
rosaceous.

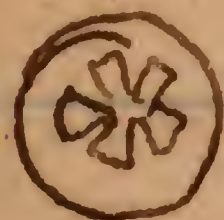
Sepals greenish, lanceolate, spreading.
acuminate  rather thickish, densely
short hairs.

Stamens numerous, hypog, a circle of white

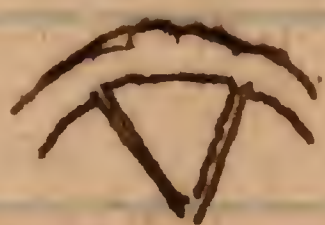


erect hairs between their
bases + ovary.

Filaments slender, white smooth, anthers
transversely 2-celled, short, yellow, versatile.
Ovary superior, smooth, green, style
thick + short, stigma 5 lobed, so when
view from above .



Ovary 5 celled, outer wall
very thick, partitions thin.

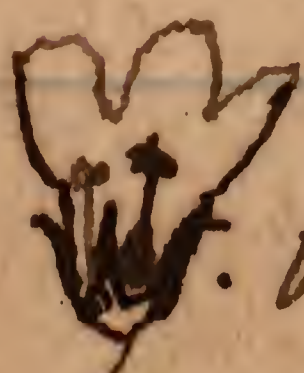


Along lake shore.


Fruit. No. 124

Shrub, weak spreading, 2°-6°, very
strongly serrate leaves, all round.

wh. fls. 5 lobed corolla.



Corolla slightly
irregular, 2 lobes
fl. x1. smooth inside, the
stem 3 bearded at base (of lobe
not tube) lobes acute
or somewhat emarginate

with a little cup . The lower 3 forming a sort of lip are bearded with fine yellowish hairs inside. Stamens epipet. at base, included, filaments thickish, white, smooth. ♀ Anthers 2 celled, cells spreading, yellow, imbricate. Stamens 4.

Calyx of 5 lance linear, acute green smooth sepals (or slightly monosp.)

Ovary superior smooth, green, style white smooth, stigma rough, terminal enlarged white.



stigma

Ovary 2-celled, ovules very numerous.

Forms one fl. with 6 lobes to corolla, but only 4 ^{stamens} leaves now for tea, to sweet. calls what sounds like Icáte.

Fruit No. 125 near alligator Pt. ju 1144

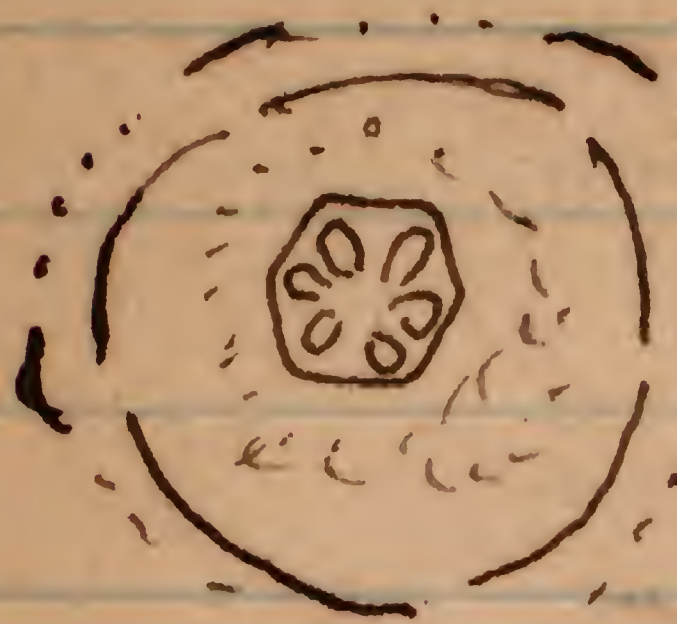
The cordate petiolate leaved yellow mallow, with regular ⁽³⁾ lobes to corolla. Slender shrub about 2°-3° high.

Ovary 6-celled, axile placent, 1-seed in each in pod.

Calyx green, monosp, deeply 5


Calyx green, monoph, deeply 5

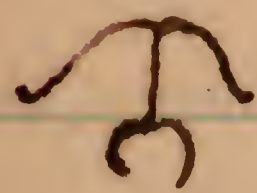
lobed, lobes lanceolate, acuminate &
all hairy.



Stamens numerous, filaments
(free part) slender, column
united to corolla in the
usual mallow manner.

Anthers yellow, 2-celled &
transversely

The lobes do not seem
to be symmetrical but like this 
There are five yellow.



Style lobed (3 or 4?)

lobes slender, spreading
& recurved, stigma small
terminal.

fruit

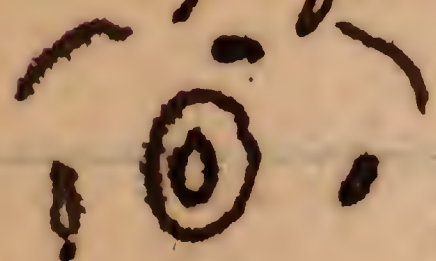
No. 126.

The slender, erect shrub with little
raceme of wh. fl. "choke cherry"



fl. x 1+

Ovary superior, somewhat
flattened, smooth, 1-celled 1-seed



Calyx of 4 persistent greenish
white obtuse oblanceolate, delicately
cut at apex, sepals.

Stamens 4 anthers yellow 2-celled
filaments converging over ovary
style short, stigma white, slightly
several lobed terminal

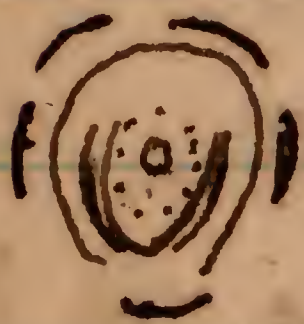
There is a green gland at base
of lowest sepal. shrub 2 ft high.
near Alligator Pt.

No. 127.

Along roadsides

The very delicate yellowish pea, the leaves with 3 minute leaflets.

fl. x 1.

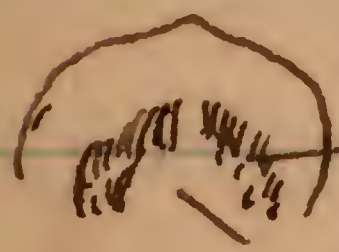


Calyx irregular, 4 upper lobes rounded, slightly bearded, the lowest narrow, acute, longer. all greenish.

Corolla. Standard large, inclining

remainder.

Apex of standard acutish,



purplish.
yellow

greenish yellow with
purplish (or pink.)

The wings yellow, acutish, ^{united at} ~~free~~ apex

Usual shape with the little spur towards base

Filaments green, anthers minute yellow.

Stamens 10.

Keel green, narrow (somewhat membranous) inclining stamens & pistil. Corolla.

style smooth slender, stigma minute terminal, anthers 2-celled.

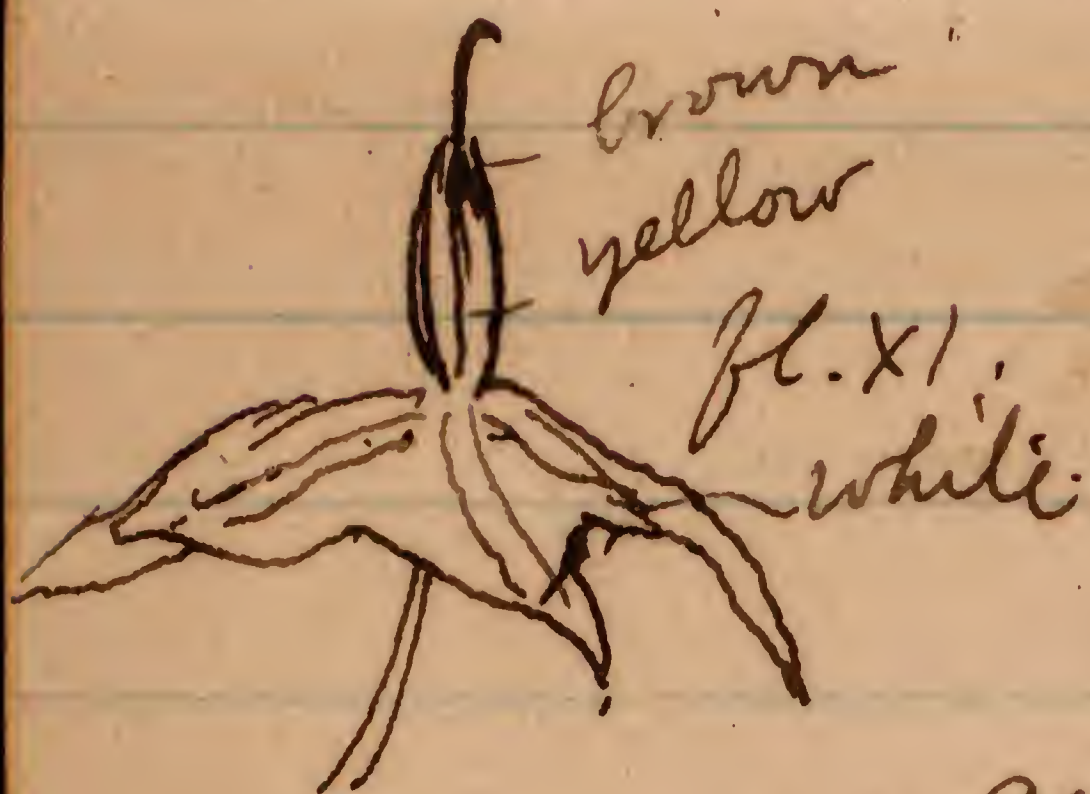
No. 128

Large white shrubby spiny Solanum.

Stems sometimes 3 in. in diam.

and plant 3'-7' high.

and plant 3'-7' high.



corolla rotate

5 lobed, lobe X1

(smooth) hairy outside along middle
stamens 5, erect

filaments very short.

anther 2-celled innate,
opening by cracks at top.

Calyx of 5 lobes, green, brown tip.
hairy.

X1 { Ovary smooth, green, superior
style whitish, stigma green
terminal, but little enlarged.
slightly lobed (5)
Ovary 2 celled, ovules numerous.



No. 129.

Pink Mallow. Spreading herb. 15'-20'
calyx numerous, green, 5 lobed, lobes X1 hairy,
green, folds between lobes, persistent, enclosing four
lobes of corolla pink, ciliate, obtuse(?)
about equal in size to yellow mallow.
corolla deep red inside
column yellow, hairy - stamens numerous,
anthers yellow, small 2-celled.

petal Not quite sym. (pretty near it)

stale deeply 5 divided,
division yellowish, becoming

deep red at stigmas, which are
capitate + deep red.

ovary 5 lobed

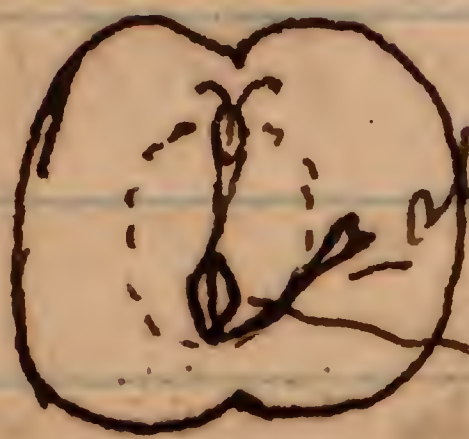


5-celled, smooth
greenish

Fruit

No. 130

Wood with an elm-samarra looking fruit.



shape of corolla

Corolla yellow above
white below, inner.

abund. styles 2, yellow protruding

abun Δ . (There is a white body

like this fig. at base of abune in front.)

A smaller scale covers the fl. as in-
dicated by dotted line.

~~(The white style like body is shaped at top)~~

This is really part of stam. fl.

Corolla of this is regular 5 lobed,

stamen 5, conjugation, included, dark

Is this our Composite? I think so.

If so there is no pappus, & the

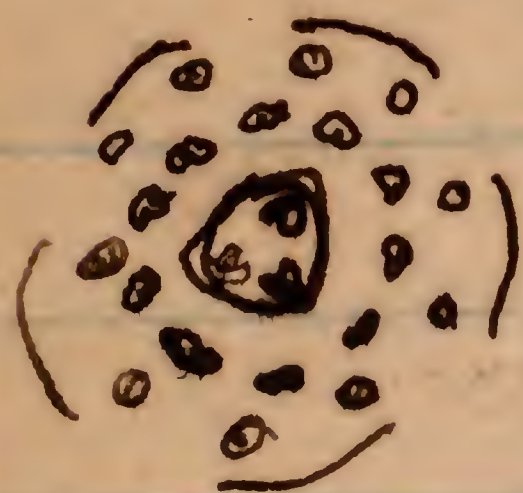
three scales (there are two small ones
in front) from the involucre.

4'-10' high. Found in Steins S. field)

Ojoché?

~~Frut.~~ No. 131 - ^{Ojoché?} (Ojoché) (small tree)
 { Used for feeding horses, etc. Fruit boiled used
 for food (like potato). A shrub
 7' high, cherry like in general appearance
 but with gray smoothish bark. (Buckthorn!)
 Fls. in dense axillary clusters. - Sweet scented
 ♀ fl. x1. Calyx monosep. greenish, hairy.

lobes 5, obtuse ovate
 stamens there are about 10 yellowish, erect
 very hairy bodies standing upon calyx so. which
 are probably petals. ^{stamen}



stamen 10, on calyx, filaments
 smooth, anthers brownish, 2-celled,
 versatile (?) but turned inward.

ovary green, hairy 3-angled, superior,
 style short, stigmas 3 (not

3-lobed) short rough, yellowish, spreading.

Ovary 1-celled, 3 parietal placentae.

Orbels several. } Found near Steiner's gate.

No. 132.

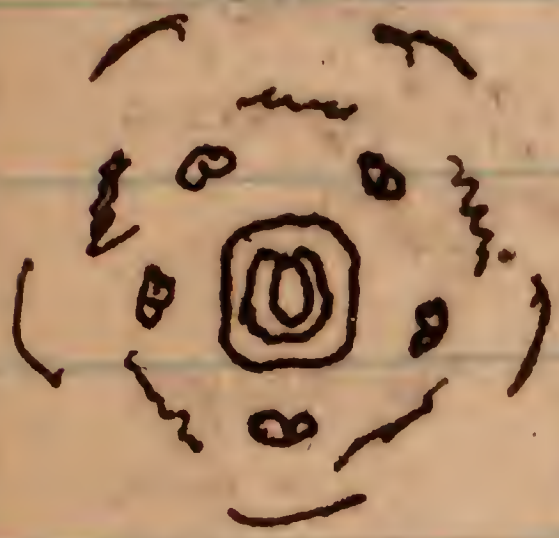
Refluxed fruit.

Phryma-like from Steiner's field (south)

sepal x1 Calyx of 5 stiff green, somewhat
 scarious, very sharp pointed sepals, spreading,
 turned down (the whole flower on stem)
 corolla Calyx
 x1

* lobe of corolla

Corolla small, pink (white below)
^{petals} ^{petals} erect.
~~monopetal~~, 5-lobed, ~~lobes~~ fringed. Stamens
exserted red, pollen whitish (anthers red)
introrse, dehisc long.



Stamens attached externally
to outside of corolla (there are
ridges running down which give
it the appearance of hypogynous).



Style erect, short, stigma
terminal small.

Style pink, ovary green
flattopped.

Ovary 1-celled, with one seed (a little
doubtful about this.)

An herb 8'-20' high. Calyx persistent
inclosing fruit. 2 little bracts[?] above flower.

No. 133

A prostrate hairy-leaved Morning
Glory - white flowered - Swamp.

3 outer sepals very large, cordate
^{airy} hairy, green, acute = more
than $\frac{1}{2}$ corolla.

The inner narrow, lance, but ~~other~~ otherwise

than $\frac{1}{2}$ corolla.

The inner narrow, lance, but ~~other~~ ^{otherwise}

like the larger (^{but} shorter)

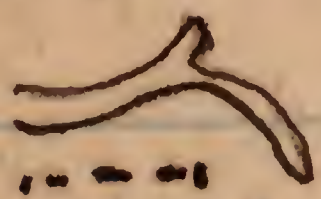
Corolla 5-lobed, each lobe ribbed,
the rib running out into a cusp,
& hairy all way (along rib)

Filaments & style white smooth
equal, included.

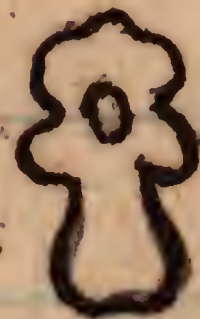
Stigma rather small, Ovary 4-celled.
Vine 1°-3° long.

No. 134

Little flowers, purple, irreg. Shrub
with opp. leaves (serrate) & clusters (heads)
of fls. in axils. Swamp.



corolla



face of corolla

Corolla 4 lobed, lowest
largest, purplish, remainder of limb
pink, tube white.

Hairy on outside

Stamens epipetalous, anthers small

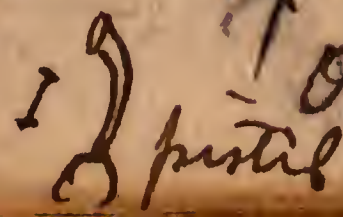
yellow, 2-celled, sessile (or very ^{nearly} ~~sessile~~)

included.

Stigma oblique, green,

style short smooth, green

Ovary smooth, green, superior



ovary 2-celled, one ovule in each cell.

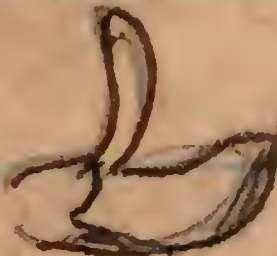
Calyx of 2 short, obtuse, whitish, rather inflated, small, hairy sepals.

A much shrub - 6' high.


wood

fruit No. 135

The yell. fl. cassia-leaved shrub with pithy stem in lake. Grows 6' above water, & the thick part over 2' thick.

 Standard yellow, slightly emarginate.


Wings obtuse, yellow,

 Keel x1 Keel yellowish (greenish)

obtuse, slightly coherent; with a purplish spot toward apex.

Stamens diadelphous, but 5 in each set. Greenish, smooth, anther yellowish, versatile, 2 celled, dehis. long.

 ovary smooth, green, style

 short, straight, smooth,

stigma minute, terminal.

Fruit.

No. 136

Tall, coarse, square stemmed, white-flowered Eupatorium with connate-perfoliate leaves.

Stems 2°-6° high, erect.

Fruit.

No. 137.

Coarse fireweed, 1°-3° high

Waste places.

No. 138.

Eclipta All flowers white

anthers yellow. On muddy (sandy

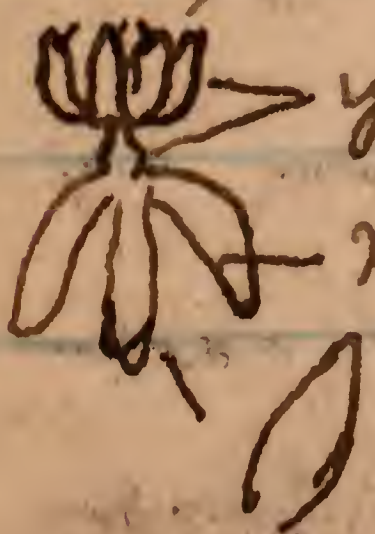
flat in swamp.

No. 139.

Red & yellow Milkweed (also at San Carlos)

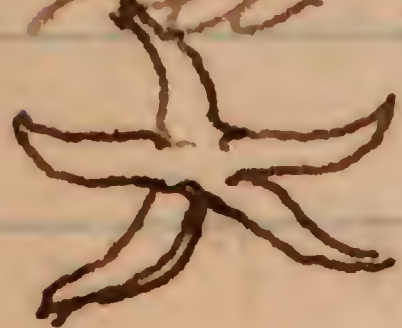
Low places, 1°-2° high herb.

→ yellow The "horns" in petals also
red. yellow.




no. 140

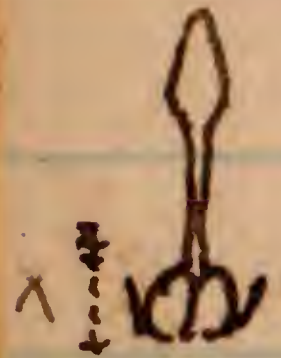
Tree, leaves very cherry-like fls. wh.
in axillary bunches. Bark light gray ^{smooth}
Tree 5' in diam. 15' high. Swamp.




Corolla ^{greenish}
inflated, white
calyx x 1

 Calyx mon. green, 5 small erect
acute lobes, rough.

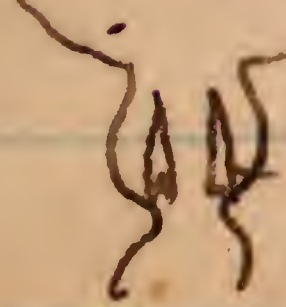

Corolla monopet, 5 lobed, lobes lance,
acute, spreading; ~~corolla~~ inflated below
lobes white, densely short hairy.

 stigma. Stigma terminal very sticky.
Style greenish, smooth, erect.
Ovary reddish (brownish) 2 lobed,
superior. (The ovary is in a little
cup of 5 ovate greenish pieces. This
is ~~probably~~ the ^{disc} ~~calyx~~ + the above described
as calyx is probably involucre.)

 Ovary 2-celled, many minute ovules
on fleshy placentas.

The throat of corolla is almost closed
by fleshy fold!

The stamens 5, sessile, anthers 2-celled

 stamen ^{syngeneis, pollen whitish, anthers}
introrse, sharp awned.  (shape)

ggs same mirror, dark brown. (shape)

No. 141

Weed with 3-lobed bur-like fruit
+ small white fls. ^{alt.} Les. sharply serrate.
Common on mud ^{+ sand} in Swamp.

♂ fl. x. Corolla of 5 narrow-obovate, acute
white smooth petals.

Calyx of 5 rough, green, acute sepals

Sepals unequal, 2 usually smaller

~~1~~ - 1 stigma Ovary superior, hairy ~~on~~
(ovary. green, 3 celled).

Hairs on pod glandular.

Seed one in each cell. Each cell
1-ovuled.

Stigmas 3, sessile, greenish, each
palmately 5 divided.

— The above applies to pistillate fl.

The stam fl. is ~~stam.~~ 2 petals being

very small. Petals obtuse, oblong, tapering
to base. Calyx more regular ^{with} 5
acute greenish lobes.

♂ corolla. Stamens ten, 5 opp + 5 alt.
on short erect greenish filaments, anthers
greenish, rounded, 2-celled, introrse

These occur in same cluster with
pistillate flowers.

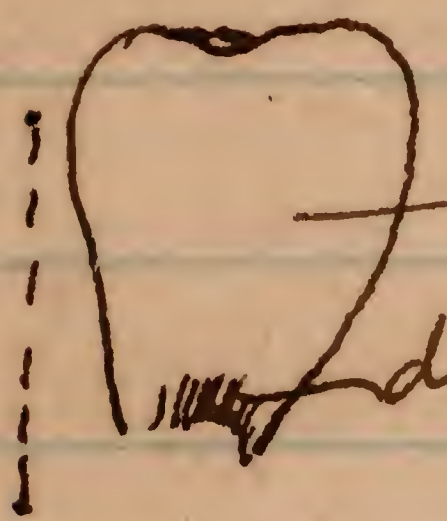
There is a rudimentary pistil, green,
among the stamens.

Frutt.

No. 142.

Pink, very prickly mallow (called
Malva by the natives). Coarse herb
1° - 3° high. In swamp.

Fls. surrounded by 10 linear fleshy green
ciliolate & hairy bracteoles which = calyx.
Calyx monop., with 5 ovate acute
lobes, very hairy. regular



pink. with whitish lines (veins)

deep red

lobes of corolla almost
symmetrical

Stamens 10, pink, terminal (2)

lobes of style short, pink, 10.

style white smooth.

Ovary 5-lobed, 5-celled.

superior.

Stamens many, column deep

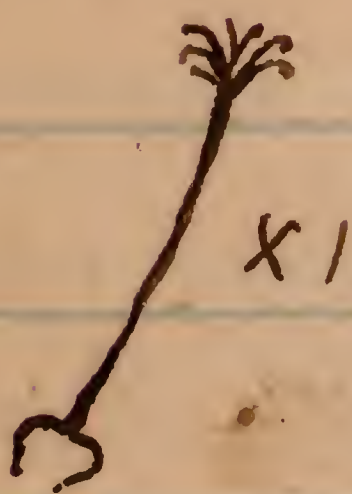
red at base. becoming pink above

Free part of filament pink short, smooth

anthers ^{purplish} (pollen yellow) transversely

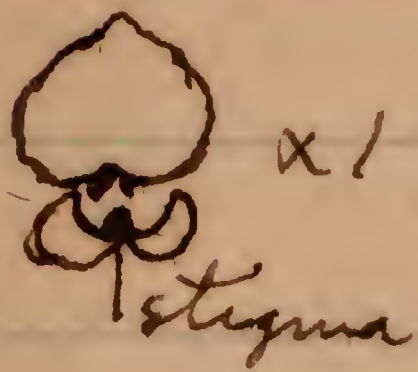
2-celled, dehisc. long.; versatile.

Ovary yellow. (whitish.)



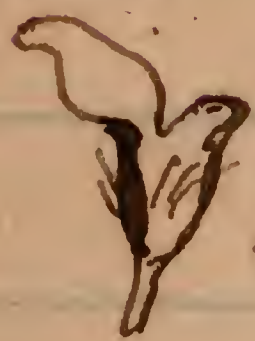
No. 143.

"Water Cabbage"



x 1 fl.

Perianth of 3 very hairy parts, greenish at base, white above.

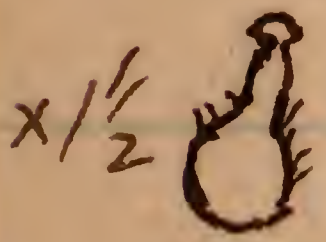


side view.

The uppermost large, cordate above, all very hairy.

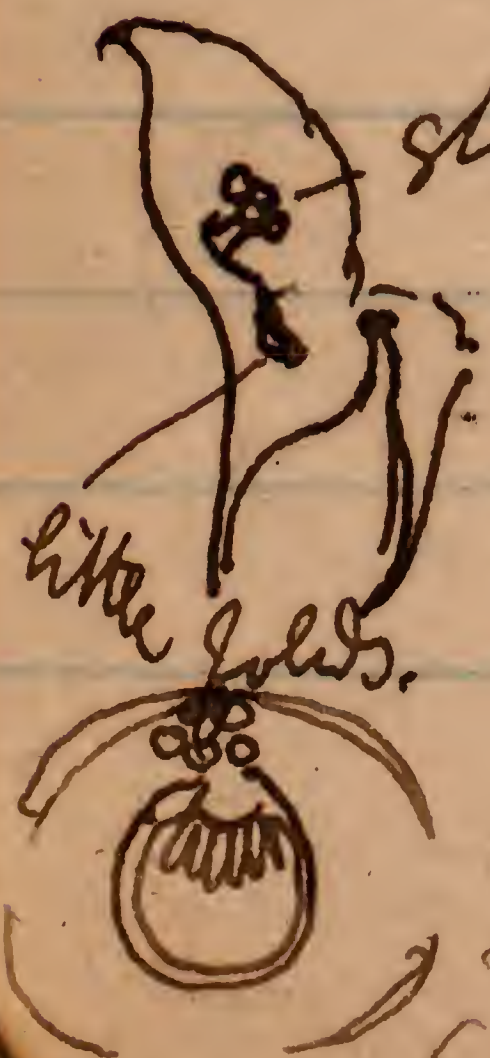
The lateral much smaller.

Pistil below, stigma just projecting.



side view of pistil - style fleshy, erect too wide (thick) greenish, ovary green, "inflated", this & style both hairy. Superior.

ovules seemingly attached all along inner wall of ovary which is filled with mucilaginous juice. Walls of ovary thin; ovules minute.



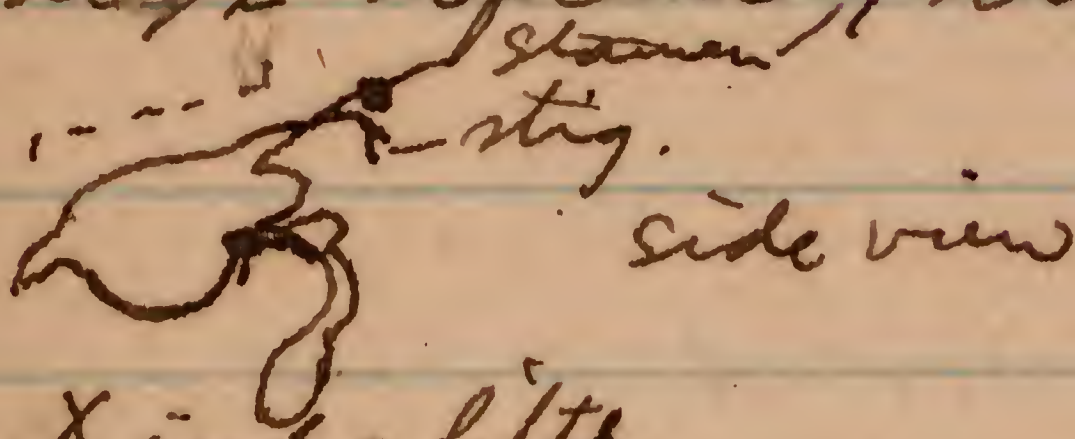
stamens. The stamens are 5 (5 anthers united around a column. yellow, very mucilaginous. the little folds are 2 thin spreading, with crumpled margin.

Really there is 1 axile placenta in ovule, this being placed inside (on axile side)

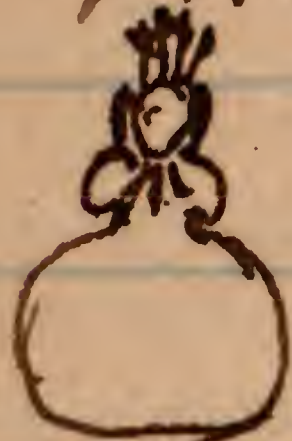
Fruit No. 144

Coarse hairy mint with long petioles
opp. leaves. & spikes of almost white fls.
Coarse herb, 2°-6° high. Toward Swamp.

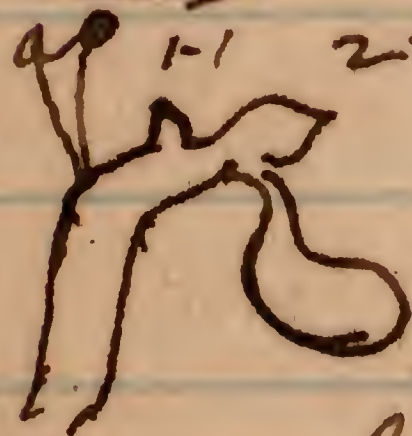
Calyx inflated, irisy. 5 lobes, upper
longest, all hairy; green.
tube hairy.



x just a little



front view
all white
except the 3 purple lines.



Side view of corolla.
tube hairy, there are really
5 lobes to corolla,
1-1 being sharp & recurved, 2-2
ovate, acute, & 3-broad.

Style smooth, white, stigma
2 lobes; ovary superior, 4 lobed, rough.

Anther Anther 2-celled, brownish
(orange) pollen pink.

on greenish, (smooth) exserted filaments
tube of corolla & base of filaments hairy
(inside). (There are always pink
granules like pollen at base. Remainder

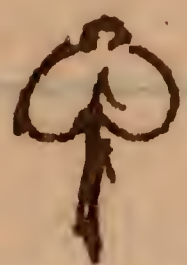
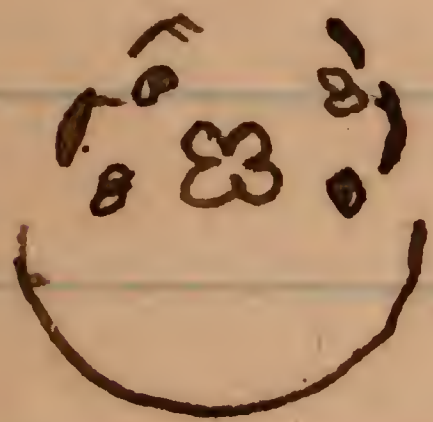
granules like pollen at base. Remainder

is orange colored + sticky.)

The lower pair of anthers (though
their filaments are attached above
& hence these are upper stamens)
belong to shorter stamens.

Upper pair short, lower pair
long.

Anther cells



anther X. diverging.

No. 145.

Whorled leaves, small weed general
aspect of Galium. Spreading,

3' ± 1' —

On swamp.

✱ H.X

calyx of 5 deep lobes (almost sepals)

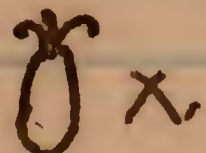


obtus narrow, white above,

green along middle below.

Tube ~~of~~ roughened by short hairs.

ovary superior, thickwalled, 3 lobed



style short, white

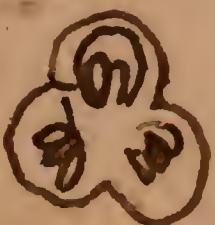
until

curved, stigma lateral, bristly

like, white. Ovary smooth

ovary 3-celled, ovules numerous.

stamens hypogynous.



Fruit No. 146.

"Red-hot Poker"

Erect shrub, 1°-3° high, with
terminal spike of bright red fls.

(1) bract (somewhat lobed)

X1

style very slender white
smooth, stigma minute,
terminal.

Ovary smooth, green, superior,
on thick yellowish disc,

ovary 2 celled, ~~one~~ 2 ovules
in each cell. (flatish)

X1



stamens

upper lip 2 lobed,

lobes entire,

narrow, acute

(cushillate)

upper lip of corolla

spread out.

Entire corolla

bright red, hairy.

Stamens 4, exserted (near base of
tube) filaments hairy on one

attached

sepal

X1



(tube) filament hairy on one

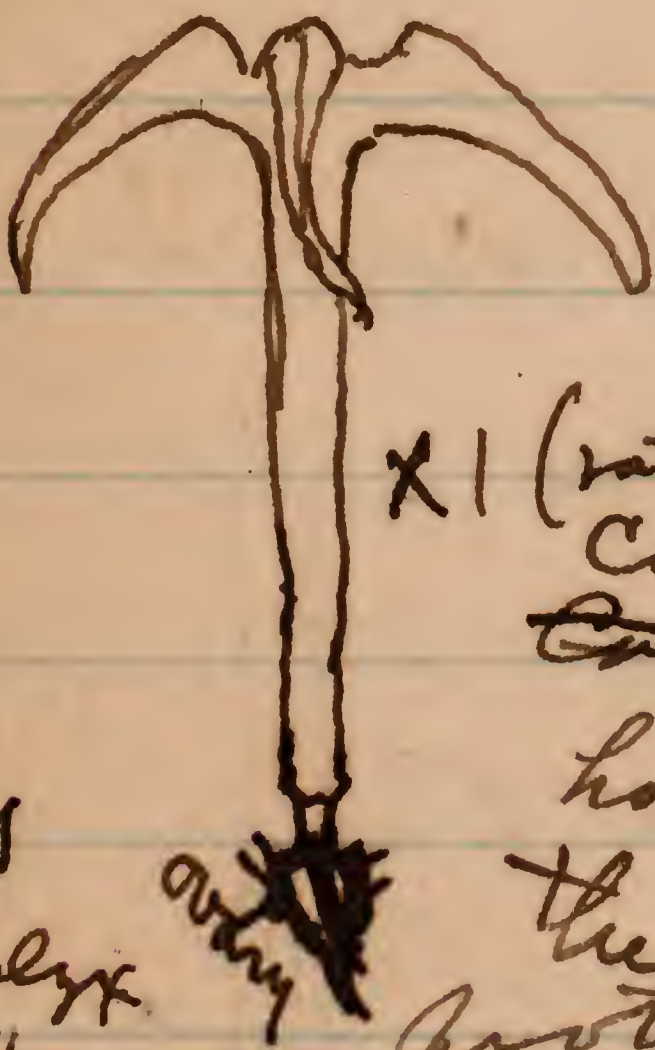
(side) side (a line only) for $\frac{1}{3}$ of way from base, pink, white toward top, anthers one-celled, acute & introrse. all appear in upper lip each anther short-pointed.

Calyx of about 8 lanceolate, smooth, scarious, very sharp pointed sepals.

No. 147

White, waxy-flowered vine, with almost sessile leaves. Herb. 5°-6° (?)

The limb of ^{corolla} calyx is rough-granular.



x1 (rather a large one)

Corolla

Calyx monophyllous with 5 inflated horse-like recurved lobes to the border, each with a little protuberance above, pure white smooth, tube greenish.

Throat almost closed,

The calyx is small, 5-lobed, lobes small, greenish.

Column style thick = to corolla. Greenish

hairy.
its lower half granular (~~as~~
~~as these pollen grains~~)



anther

column Anthers 1 celled, united
firmly around top of
column
style & attached to it,

one-celled, exserted, 5.

The calyx occurs distinctly in stam.
fls. Less distinct in pistillate

base of stam. fl. otherwise like
other one.

Ovary ^{long} hairy, green, inferior

The column and style are
the same in length, thickness
& color. The style is hairy
about $\frac{1}{2}$ way up (for a
short distance along the
middle). Ovary 3-celled
one ovule in each cell.

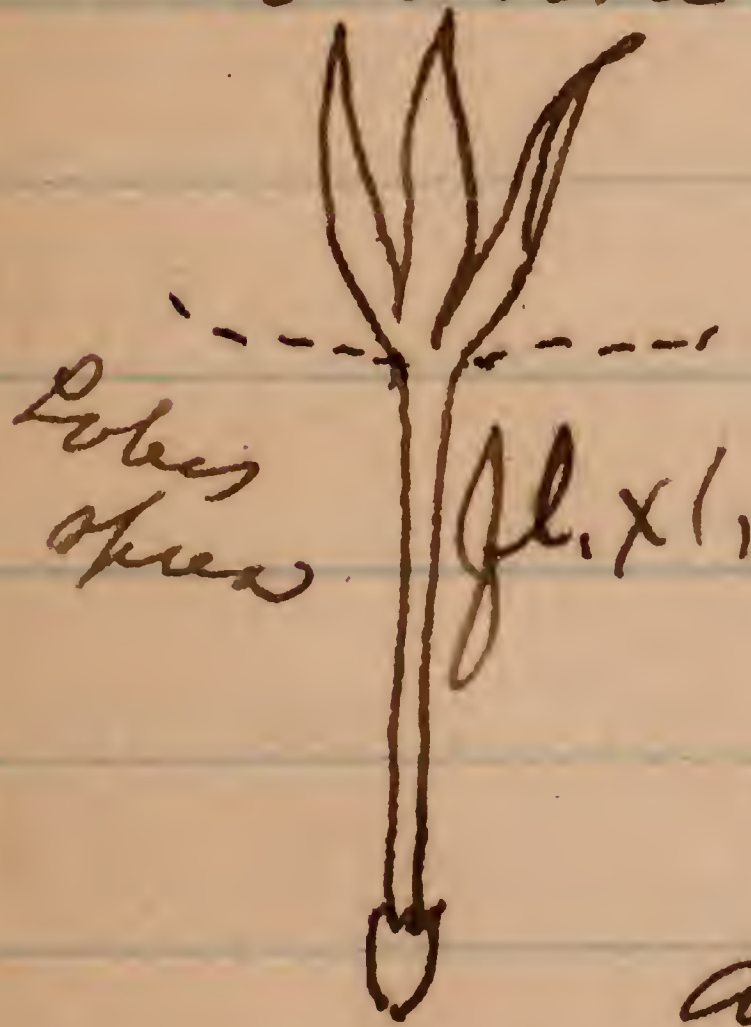
Both kinds of fls. appear

1200 ft. buds of fls. appear
on same stem, but seemingly
in different clusters. Swamp

No 148 [✓] incanum
Polypodium (= San Carlos)
On fence post.

No. 149.

Woody vine with greenish wh.
flower & ovate, alt. leaves, entire.
On Lake shore ^{Norby}, climbing up a tree.



Calyx short, green, ~~slightly~~
5 lobed, smooth; lobes obtuse

Corolla white (greenish)
tube greener, smooth, narrow
Border 5 lobed, lobe lance,
acute.

Anthers small brownish, 2
celled, almost sessile, unequally
inserted on tube of corolla near
throat. Style = to tube, greenish,
smooth. Stigma clubshaped
terminal. Ovary 2-celled,



ovules several in each
cell; ovary ^{superior} ~~slightly~~ 2-lobed.

No. 150

More delicate composite, woody
at base, 4' high, flower heads
like small fireweed. North

No. 151



white flowered
orchid. Pressed
Fruit & leaves - 2
leaves.

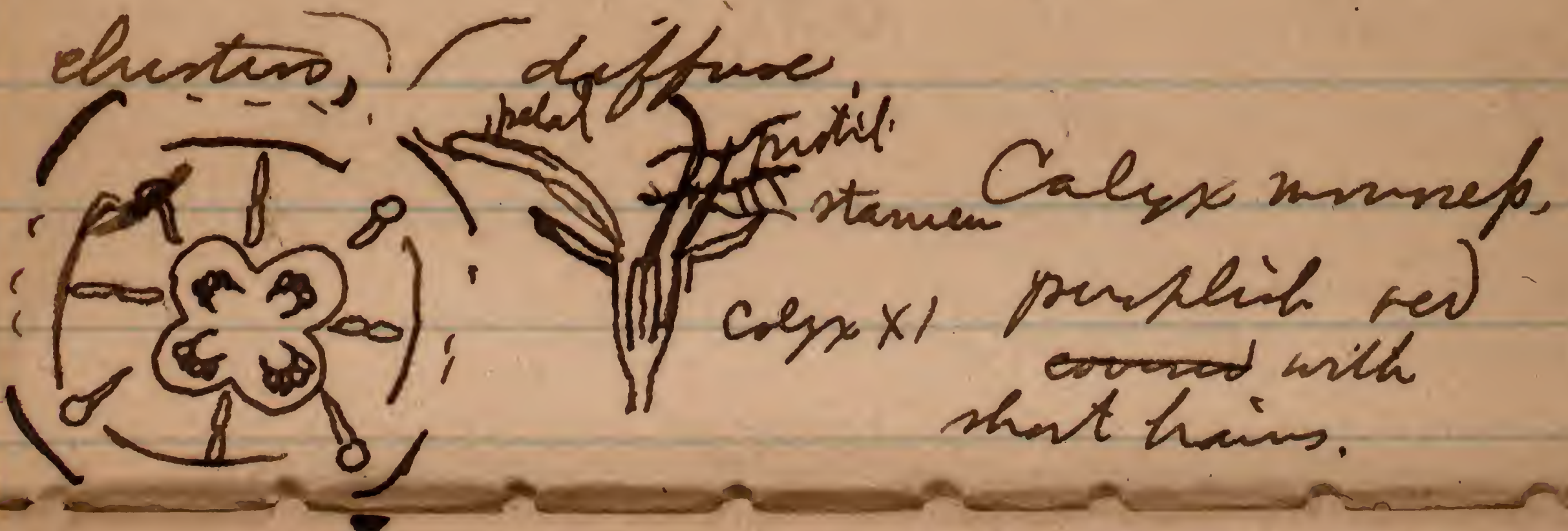
No. 152

The pink flowered shrub found near
top of Sautetpe.

Plant 1' - 4' high, mostly in dense

clusters,

diffuse



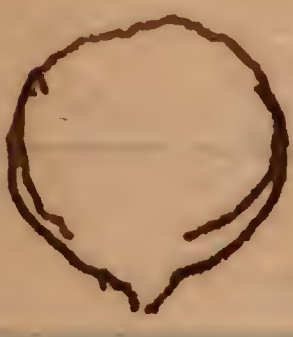
Calyx magnified
purplish red
covered with
short hairs.

most hairs.

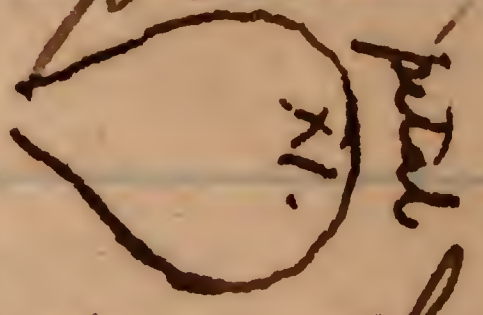
greenish in throat.

4 lobed, lobes lance, acute, spreading.
Persistent, bearded between lobes.

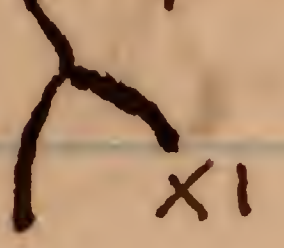
Corolla on calyx, of 15 petals



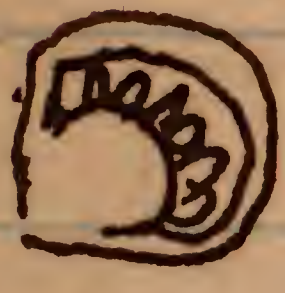
a small petal, which are deep
violet pink, & finally pink
somewhat irregular,



Stamens 8, the 4 opposite ones shaped



two celled, cells long, yellow,
filament smooth, pink.

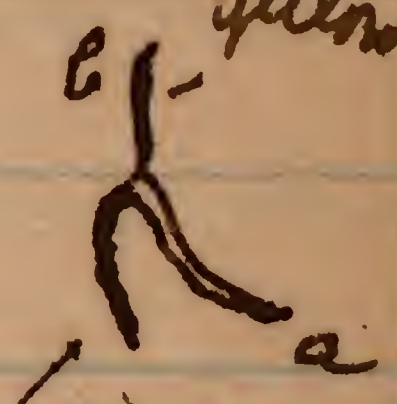


1 cell of
ovary.

The alternate ones are shaped

the spur: a turned down &

inward, & rec, the upper cell



yellow as in other stamens. Filaments same.

Stamens on calyx. Ovary 4 lobed,

green, pink & hairy at top. Style

curved pink, smooth, stigma small

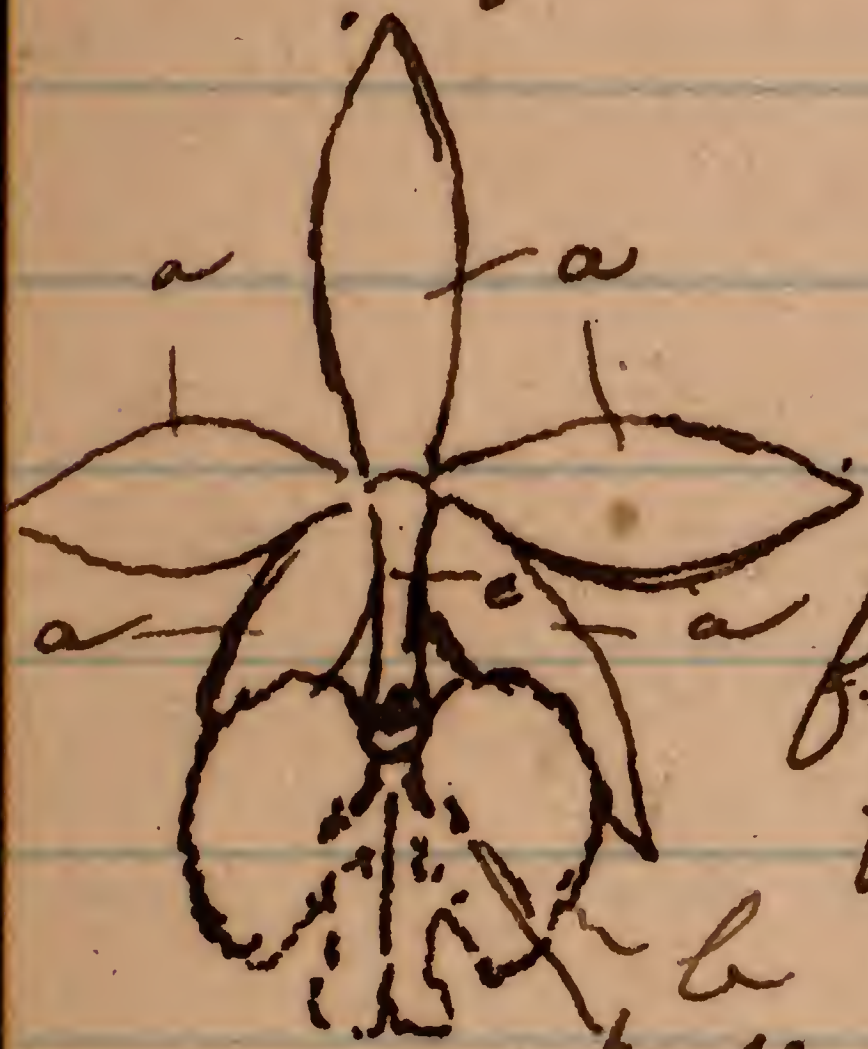
terminal. Petals deciduous (quite.)

Ovary 4-celled, ovules minute, numerous

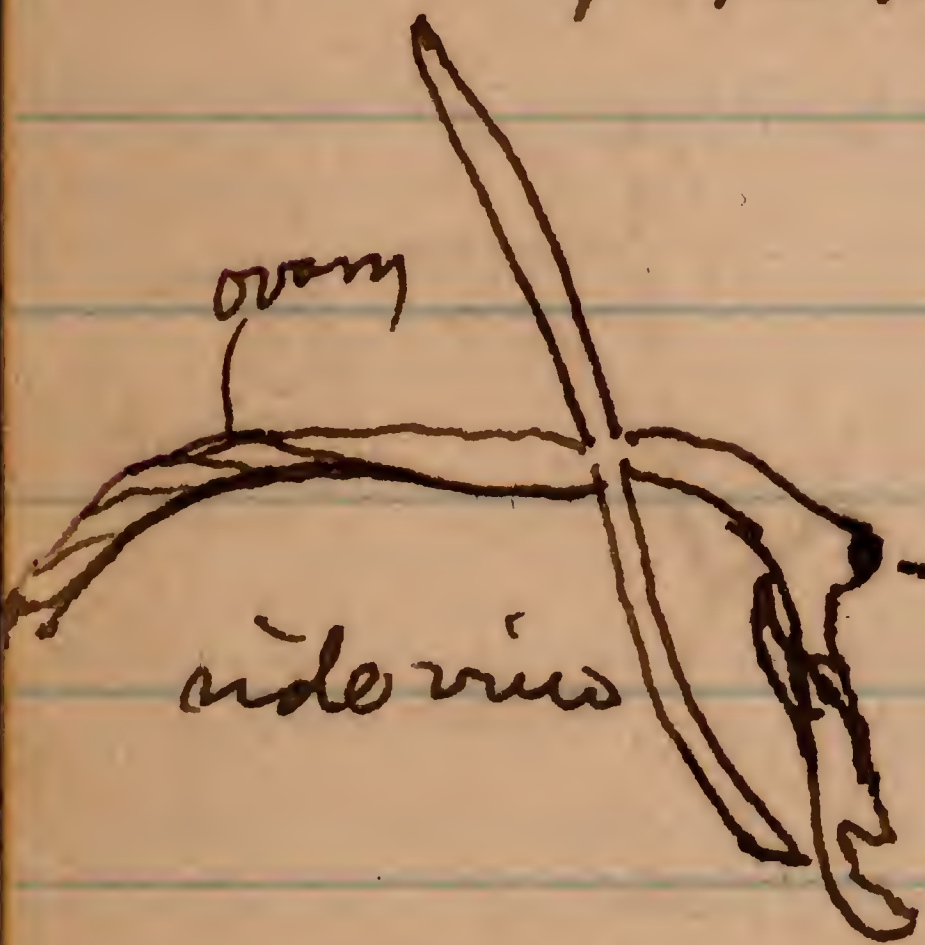
on an enlarged placenta.

No. 153.

The deep yellow (orange) fleshy leaved plants (leaves in 2 ranks) from near top of Onctepé.



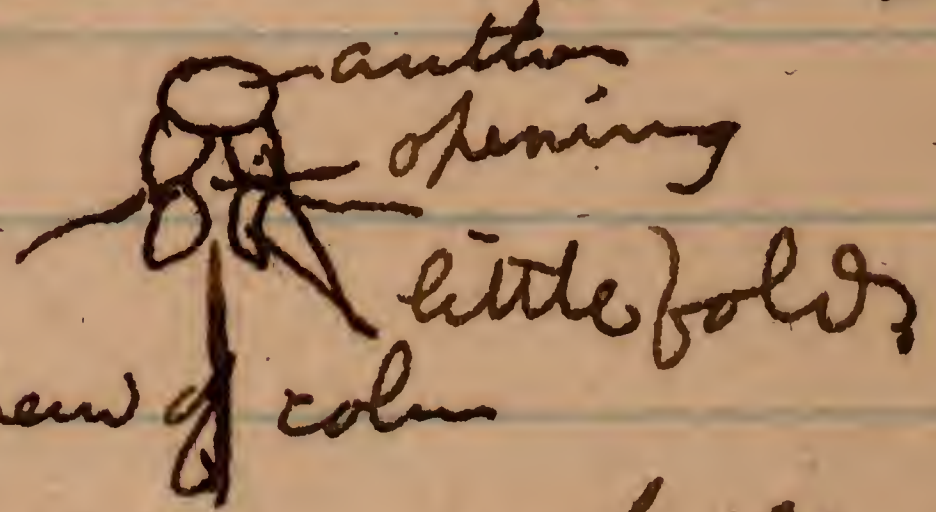
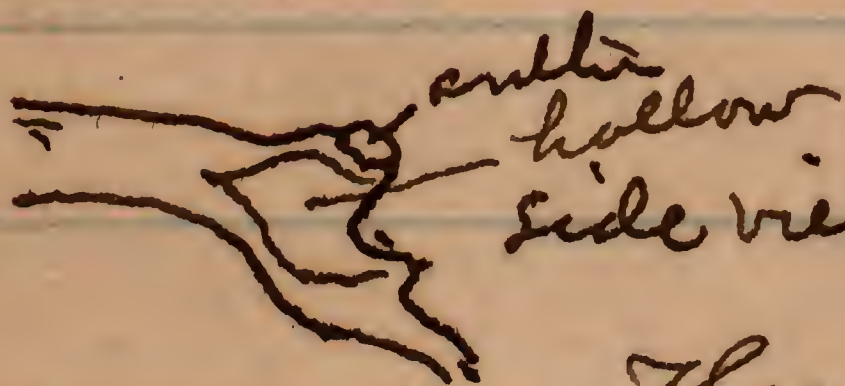
The five bodies (a) are nearly equal, bright yellow, acute, the 2 lower + 1 uppermost sepals (from this position) + the two lateral ones petals, the (b) being 3rd petal.



The column at c is deeper (brownish) in color.

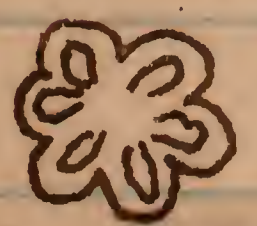
There are a few spots on the lower petal.

(x) is the anther with 2 masses of pollen. All smooth.



Side view of end of column

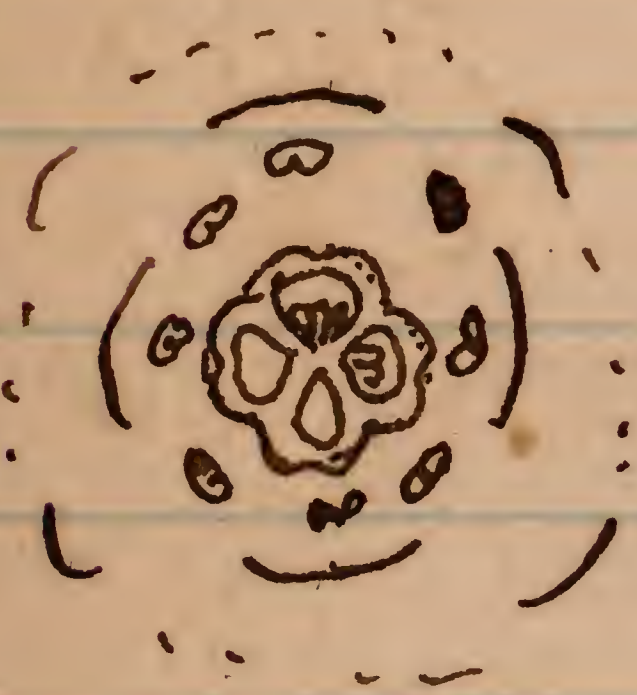
The column is hollow at end, & stigmatic inside. Ovary 6 lobed, 6-celled, same color as perianth.



No. 154.

Small (4'-12') plant, hairy, with 4 light
violet petals. Picked up at foot
of knutehe (not off horse; first plant
that day).

Petals 4 $\frac{1}{2} \times 1$ obtuse, pale violet (pink)
Corolla nearly (a little) regular, on calyx.
Stamens 8, on calyx, filaments
jointed, pink ^{smooth} stamen. anthers yellow
2-celled, opening by chinks at top.
introrse.



Style short, erect, below
anther (the stamens are
somewhat exserted (the
entire anther) included).

Calyx unimorph. green
long-hairy, 4 lobed, lobes

LF. calyx $\frac{1}{2} \times 1$

aristate, spreading
 $\frac{1}{2} \times 1$ pink ovary smooth, with little tuft
of hairs just at base of style

green.
Style smooth, white at base, pink above
stigma terminal
Calyx closely investing ovary, but
ovary superior. Ovary 4-celled, ovules
numerous.

Fruit

No. 155.

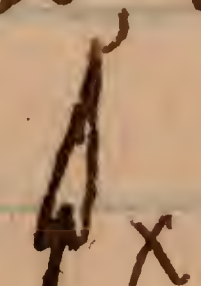
Small Phlox-like, hairy, white flowers
from 3000 up Onetche.

Corolla monophet, white, purplish or pink tinge
outside, especially on tube. Tube somewhat
curved. Border 5 lobed, (lobe x)

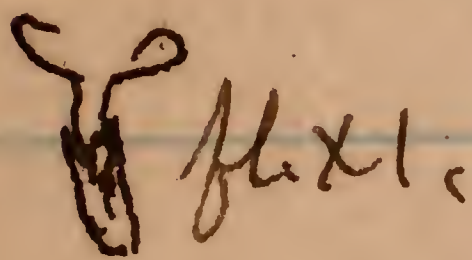
Throat almost closed by tufts of white hairs.

Stamens on tube $\frac{1}{2}$ way up, inclined,

Filaments short, greenish, anthers ^{one} 2-celled

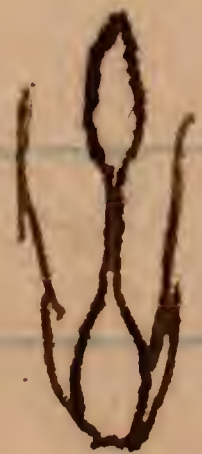
purple, very acute  x, alternate, ⁴ 5

Stamens about equally inserted.



Calyx green, tubular hairy
5 lobed, lobes acute 3-10 ribbed

8 pistil x1.



pistil x

Stigma clubshaped
terminal white.

Filament short, smooth
white (stigma not
quite reaching stamens)

Ovary inferior smooth,

Ovary 2-celled, ovules
numerous.



Fruit. No. 156.

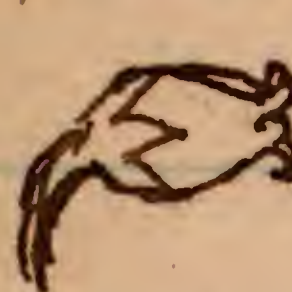
The end-weed found on Onetepe.

It appears much like ours, same color.

The central flowers are certainly pistillate.

Fruit No. 157.


The "bear-berry" found on Onetepe
toward top (4000 ft.)

 fl. x 1, ^{-base} sepal x 1. Sepals 5;

lance, white (pinkish especially
on margin), rather acute

Corolla inflated, lobes 5, small, spreading
(recurved) obtuse. All smooth, white,

with pinkish tinge.
stamens 10, attached to very base of corolla,

 Filaments short (anthers ^{reach} 2 way up tube)

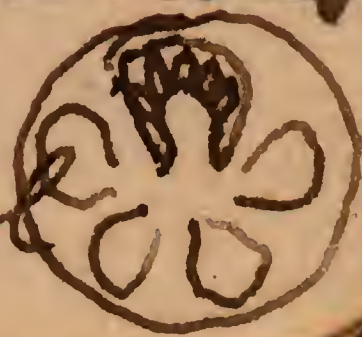
flat & broad at base, smooth, white.

anthers brown, 2-celled, introrse,
bearded at top.

! Ovary superior, whitish covered
with short hairs, style erect, white (greenish)
smooth, stigma terminal, extending a
little beyond stamens.

The black berries have a rather pleasant
taste. Shrub 8-20 high.

Ovary 5 celled, ovules numerous, small



No. 158.

Yellow small composite found
near top of Onetepe.

Rays & disc both yellow,

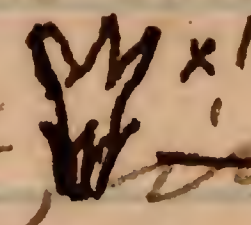
Rays pistillate (stigma yellow),

chaff of yellow (pappus), obtuse scales.

Pappus none.

Fruit, No. 159

The bright-blue berried prostrate
hairy herb found up on Onetepe.


Flowers small, ^{regular.} ~~pale violet~~,  ^{x1.} ~~violet~~.

Ovary inferior, 2-celled, ovules numerous.

Calyx hairy, ^{green} with 4 narrow, hairy
acutish lobes. Corolla on calyx.

Tube of corolla white, limb blue, 4 lobed,
all hairy outside.

Stamens 4, epipet. anthers 2-celled, blue

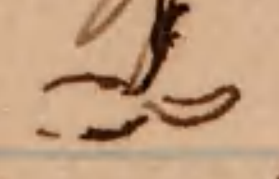
 style smooth, greenish, stigma

2 rough, enlarged. Filaments

smooth. Stamens - corolla

stigmas just exerted, whitish.

Fruit. No. 160.

The hairy-podded pea from up on
Omotepe. Calyx green, hairy 5-lobed
A faded flower (lower) standard
erect , blue, with deeper veins.
Wings + keel also seemed blue.
Standard emarginate (A) deeper blue.
of pistil Ovary hairy. Stamens with
white filaments, anthers 2-celled.
(Looks almost as if not mated. Probably
1+9.)

No. 161

The small white fl. spreading, delicate
plant from up Omotepe, at first
sight Galium-like. (hairy)

fl. x) Calyx of 5 lance. acute,
green (scarious margined) sepals, roughened.
Corolla of 5 small (= to calyx or shorter)
ovate acute, white, smooth petals.

Stamens 10, hypog., erect, exserted,
filaments white, smooth; anthers
2-celled σ^7 ; the alternate ones opening
first, white. Ovary superior,

smooth, whitish, styles 3 short, curved
stigmas ^s white, about = to
stamens. Ovary 1 celled, ovules
numerous, stalked, on a basal
placenta.

No. 162.

Little Composite with heads like
miniature Fire-weed, + plant white
hoary like our Indian tobacco.
Found on Ometepe - 2500 ft.

Fruit No. 163.

The delicate violet (pink)
Eupatorium-like Composite
Found on Ometepe.

Very brittle.

Pappus of fine white hairs. Chaff
none. Flowers all regular.

Fruit no. 164.

Very similar to above, but
shrubby, blue flowered, &
somewhat larger. Found also
lower down the mountain.

no. 165

Somewhat larger, white flowered
Eupatorium, opp. leave?

Found on Quetipe, up 3000 ft.
Pappus with fine hairs.

Chaff none, achenes smooth,

Fruit, no. 166.

The opp. leaved Penstemon-like
plant found 1500^{ft.} up Quetipe.

Only in fruit. Grows $1\frac{1}{2}$ -

$2\frac{1}{2}$ high.

No. 167.

Looks like an everlasting (Indian tobacco) but has pink scales to involucre. (quite bright)

Corollas all regular, yellow + as far as I could see, instituted (I know not as to stamens.)

No. 168

Narrow leaves, silky, yellow.
^{papilionaceous}
flowered, shrub found up
2000 ft on Dinctepe.

Standard erect yellow, short-hairy
outside, emarginate.

B fl. x 1. Wings yellow, obtuse,
somewhat coherent with keel.

Keel whitish, coherent, enclosing
stam. + pist.

Stam. 1 + 9, smooth, whitish.

Antlers small, yellowish,



Ovary very hairy (long hairy)
 style slender smooth,
 stigma rather large.
 Shrub 1⁰ high.



leaflet.

Fruit.

No. 169

The little hoary leguminose (no
 fls.) with inflated pods (like ^{small} Baptisia)
 found on mountain, about 2000
 ft. up. Flowers bright yellow, papilionaceous.

Fruit.

No. 170

Shrubby at base, looks like willowweed
 but has ~~little~~ ^{many} pomes(?) with many
 rounded seeds. 1⁰ - 1¹/₂⁶ high.
 Found at foot of volcano.

No. 171

The very delicate, white-flowered
 Polygala found on the volcano,
 about 1500 ft. Calyx has violet
 tinge.

Fruit

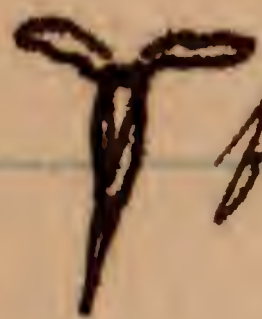
No. 172.

Hypericum.

Minute yellow-flowered (like little
~~St. John's wort~~
~~Plantain~~) . Sepals green, lance, acute
persistent, punctate (like leaves) with pellucid
dots. Stigmas (+ styles) 3, ovary smooth
green, superior, 1 celled, 3 parietal
placenta - Petals yellow.

No. 173

Delicate, pink-flowered, plant found
on volcano.



fl. x1.

Calyx ~~narrow~~ ^{of sepals} 4 lobed, 4 angled,
lobes narrow, rigid, punctate;
smooth, green. Sepals lance linear.

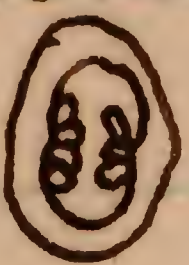
Corolla with tube delicate & closely investing
ovary, border spreading, 4 lobed,
lobes pink, ovate, obtuse; smooth

Stamens attached at top of tube of
corolla, alternate, filaments
delicate smooth, white. Anthers

2 celled. yellow, clustered about
stigma (+ style to it).



Stigma large, green, capitate.

Style slender, erect, white smooth,
Ovary superior, smooth, green.
one-celled, 2 parietal placentae, ovules
numerous. 

Fruit. No. 174.

Tall, very slender Polygala with
purplish-red flowers. On volcano.

No. 175.


The large pie-plant leaved plant
from top of Orizaba volcano.

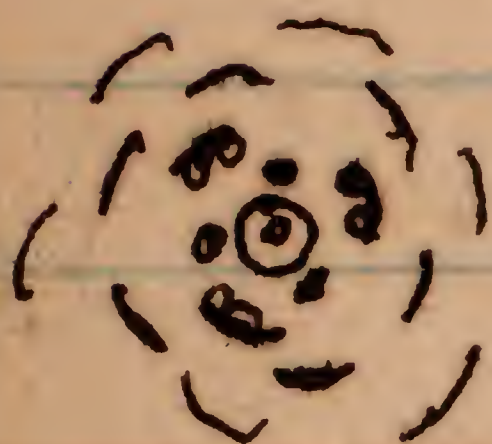
7 ls. green in compound spikes, each
spikelet with a long, green, lance
or lanceolate bract, serrate

Each little flower with a deciduous
green bractlet. No perianth ?

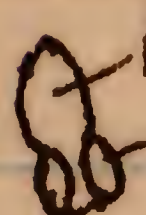
ovary about 4 angled, green, style
short none, stigma small
ovary 2-celled, at least 2 ovules
in each cell. Did not find stamens

No. 176

Quinine  fl. x1. Inc 8' diam. 18° lat
Sepsals ⁶, ovate, obtuse, white, concave, rough.



Petals 6, ~~in one set + 3 outside~~,
fleshy, smaller than sepals, granular
white, obtuse.

The three stamens look like
petals above, white granular, obtuse
The anthers are white, 2-celled, ^{cells} yellow
connective broad + white, projected above
 ^{projecting connective.}
cells of anther.

There are 3 smaller stamens (much
smaller, with cells yellow + connective
much smaller, white, probably abortive.
Ovary small, smooth, ~~greenish~~ ^{white} (whitish)
superior, style short white, stigma
small terminal .. Just about
2 to small stamens & the larger ones
close over all. Ovary one-celled (?)
fleshy (probably only one ovule.)

no. 177. ✓ *Nephrodium*
conterminum

Long-fronded *Aspidium* form
near base of Onetepe.

no. 178. ✓

The ~~large~~ *Blechnum*, ^{occidentale} found
near foot of Onetepe in deep
gully.

no. 179. ✓

Pteris quadrifida
" *biaurita*.

The long, narrow fronded *Pteris*,
found at foot of Onetepe.

no. 180. ✓

The broad, Δ fronded *Pteris*, ^{*incisa*} *clata*
found near top of Onetepe.
Also near foot. The latter is
P. clata, the former *P. incisa*.

no. 181. ✓

The small *Blechnum*, ^{occidentale} found
near top of Onetepe. May be
same as no. 178.

~~Nephrodium~~
No. 182. *Circularium*

The Polypodium (Δ fronds) from
near foot of Orutepe.

No. 183. ✓ *parvulum* ^{see}

The little Δ fronded *Asplenium*
found near foot of Orutepe.

No. 184. ✓

Gymnogramme ^{Calomelanos} from foot
of Orutepe (occurring up to top
almost. Same as no. 79.?

No. 185.

Selaginella. Found near foot
of volcano, and also further up.
The small spec. are from about
3500 ft.

~~See~~ No. 186.

Little ~~found~~ which goes

~~all to pieces. Cult. in~~

~~Mrs. Cantons garden.~~

No. 186.

An orchid

Tall-spiked, pale, meek plant

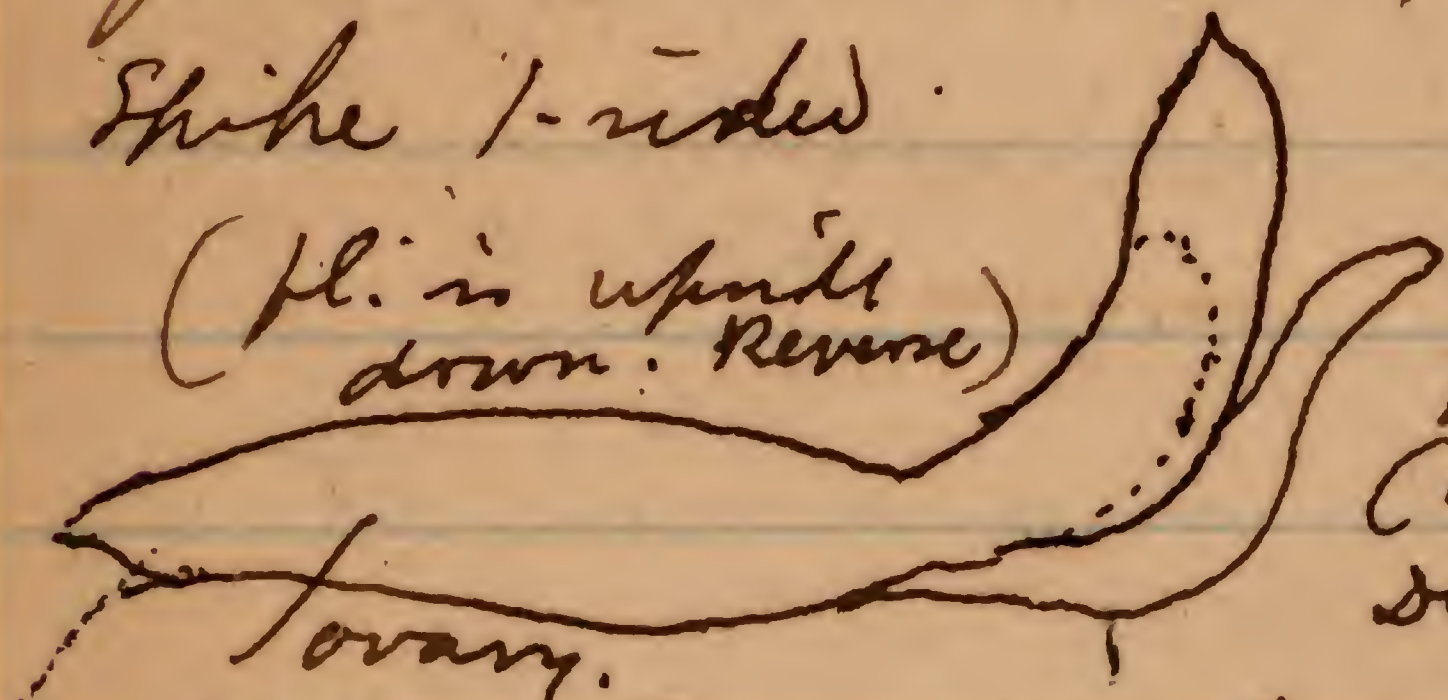
found on mountain, about 1500 ft.

Spike 1-sided

(fl. is upright
down. Reverse)

fl. x1.

(only calyx & shows.
dotted line = corolla)



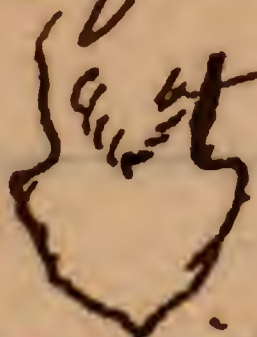
Ovary.
Calyx very, much, greenish hairy,
3 lobes, 2 tipped. Upper lobe turned
down, the lower of 2 lobes turned down
also. Upper lobe



x1

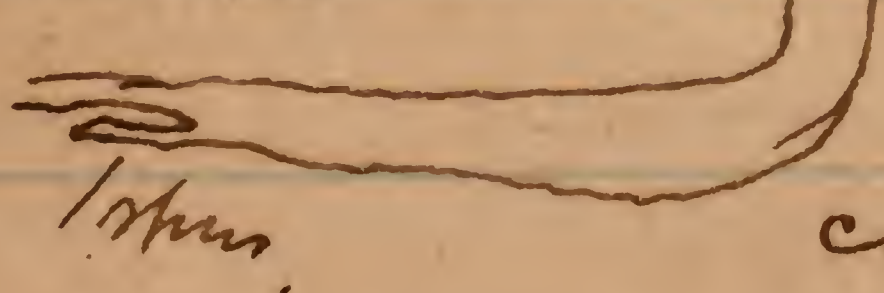
Lower
lobes acute.

Corolla of one lobe, greenish turned
down.



ridge
front view lobe of corolla.

Corolla with 2 fleshy spurs at base
where it attaches to calyx

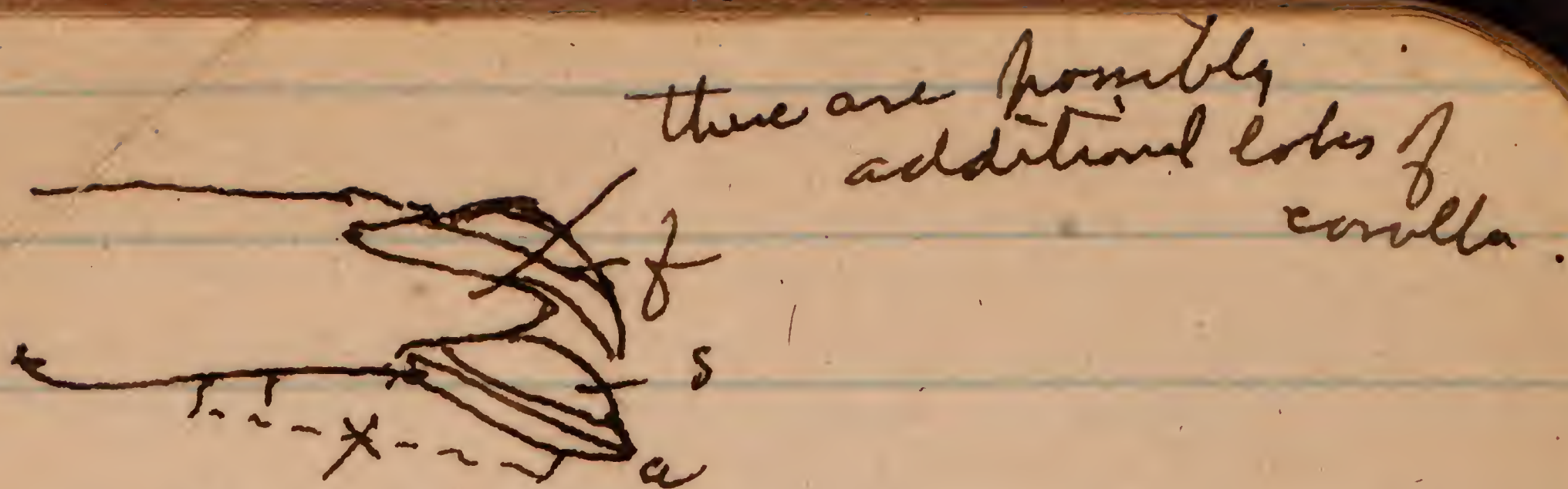


1 spur.

Just above them the

corolla is hairy inside.

The two stamens are fastened at top
of pistil & are covered by a
glap.

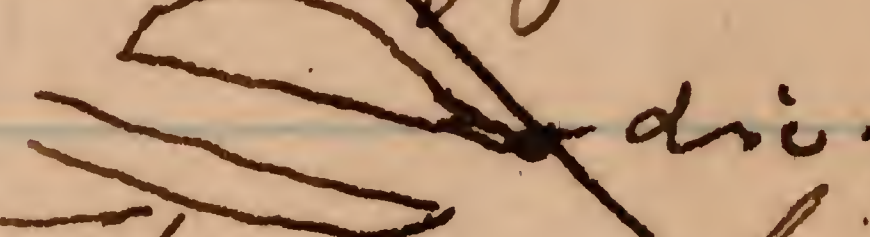


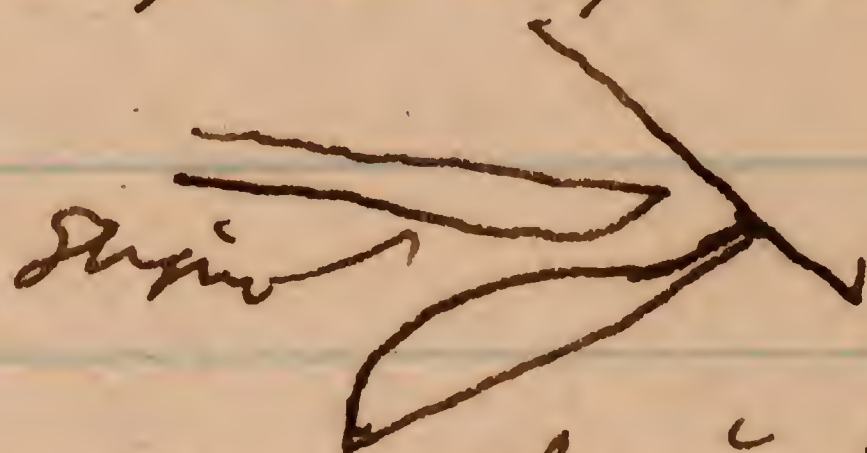
x = stigmatic surface.

s = stamens fastened at (a) + movable

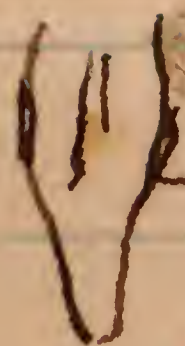
f = flap covering stamens

There is a sticky disc at a + the so-called 2 stamens are two pollen masses. They off

stigma  sticking to an object as shown above, their own weight depresses them



so that when an insect visits another plant it pushes them under the stigma. The pollen masses are light yellow + coarse at base. The anther (flap) has the upper part (aridge, rounded) fleshy.

 under view of stigma, green.

Ovary 1 celled with 3 fleshy
parallel placentae, with very
many ovules.

No. 187.

Hairy plant with small orange flowers

On mountain - Shrub 10-70.

Sepals 4 small, hoary, whitish, acutish,
lance. ~~fl.~~ fl. x/

Corolla monopetal, tube & calyx, lobes
4, hoary white outside, orange
within, tips reflexed a little, lobes
ovate, acute. Each lobe has a
little fold just back of spreading
tip, & below this inside the lobes
are hairy.

Stamens 4, filaments just at top of tube,
erect, alternate, introrse, anthers
2-celled. whitish, each with a little
spine (extended connective)

filaments smooth.

Included = to
pistil.

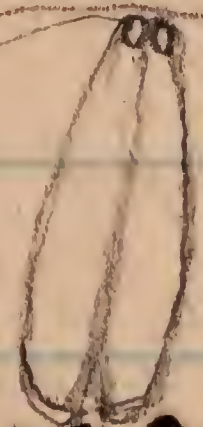


Ovary superior, hairy,
style ~~short~~ short, erect, smooth
stigma rather large, somewhat
3-lobed. 2-celled



Ovules numerous

flower



front.

back of anther




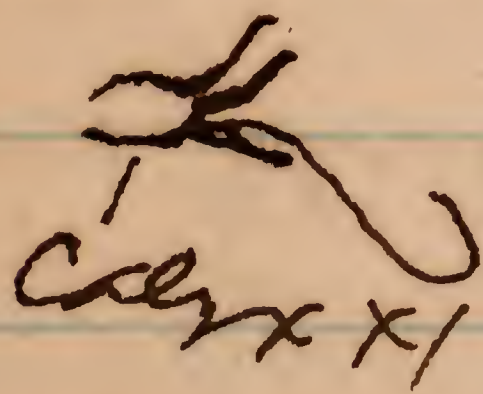
side

fruit

No. 188.

Hairy plant from mountain, with
very deciduous white petals.

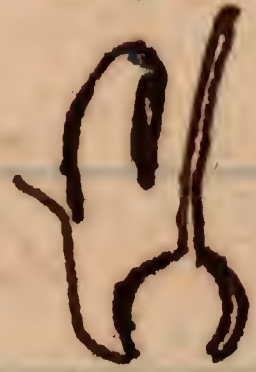
Petals 5 ovate, ciliate, apex terminating
in a long ciliam, white. on calyx
Calyx narrow, hairy, green, 5 lobed,
lobe linear, ciliate  petal x1.



calyx x1

Stamens 10, on calyx,

curved in



x1

Anthers 2-celled?

ovary superior, green, smooth, style
smooth, greenish, stigma small,
terminal. Ovary 5-celled, ovules
numerous



stamen
filament.

No. 189

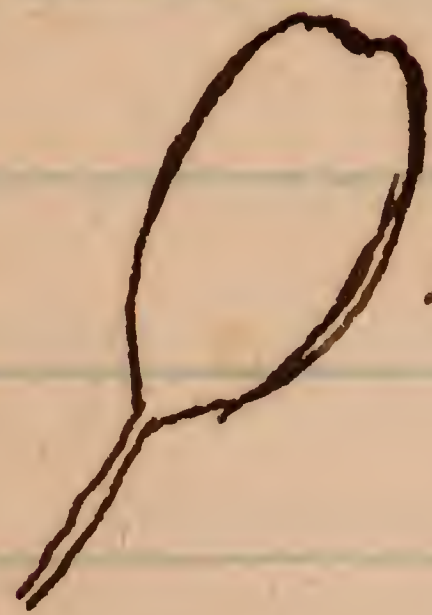
The "Indian Pink" from up
the mountain. Bracts red.

Ovary smooth, superior, 2-celled.
Style slender, long. Ovaries very
numerous.

Fruit

No. 190.

Cleome - growing in Mrs. Canterbury's
Petal 4 white erect (all turned up)
clawed. Calyx of 4 lance-linear



x 1 = petal.

acute, green, hairy

spreading upwards.

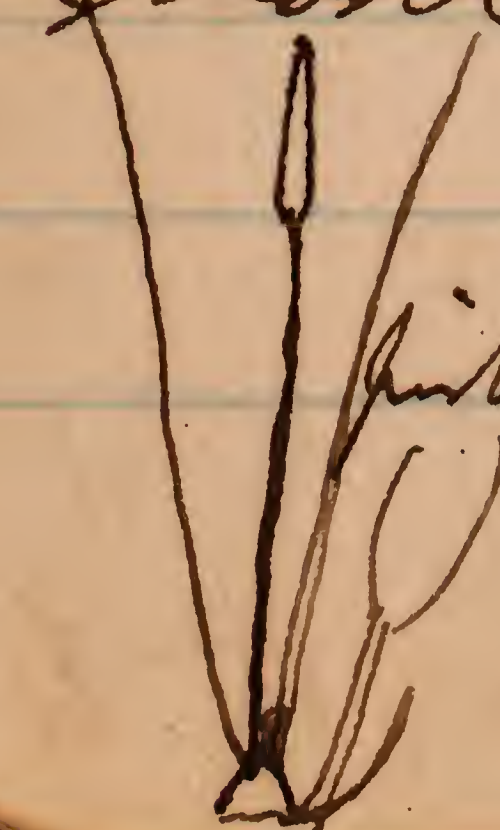
Sepal x 1.

anthers long, 2-celled.
brownish(?) pollen
yellow, extensive(?)

stamens 6, filaments long, purple,

smooth

stamen x 1



ovary on long purple stalk,

green, stigma sessile.

fruit x 1

A fleshy disc or receptacle

ovary 1-celled, 2 parietal

placentae, numerous ovules.

Fruit No. 191

Cedar-tree. ^{native.} Mrs. Carter's yard.

Fine tree, 3' or more in diam.

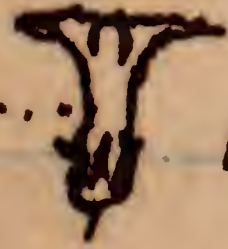

Bark rough, long cracks, looks just a little like red-oak, but not so coarse. Seeds winged, scales attached above. Fruit when bruised has an Onion odor.

Wood red. Ls. all?

No. 192

White-fl. in term. cymes.

Lvs. alt. entire. Coarse plant, spreading over fence along road east.

 fl. x 1 Corolla funnel form, somewhat white, 5-lobed, lobes ovate, ~~oblong~~, each with a midrib extended into a cusp. Stam. & pistils near bottom of tube. Stam. 5, alternate, anthers sessile, yellow, 2 celled, introrse.  - Tube of cor. green at base

Calyx of 5 lance, acute green sepals, unequal.
1. 8 ^{white} ovary smooth, superior, green, style
almost none, green, stigma green, very
large. Ovary 2-celled, with
at least a pair of ovules in each (or
just possible 4-celled with one in
each.)

Fruit NO. 193.

The rather large-headed, pink
flowered + pink scaled Eupatorium
A long climbing vine, woody,
15' or more long.

NO. 194.

Nephrodium (Aspidium-like) fern.
In deep wood. E. of Muzogalpa.

7 mt

No. 195

The deeply 3-lobed fruiting vine,
10°-15° long -

red. No. 196

The little 2 leaved, herb with
red, 2-lobed berries.

On ground in deep woods, East,

Fruit, No. 197

The vine with bur-like (very spiny)
fruit. Also found in fruit at San
Carlos. Stem prickly & grooved
like blackberry.

Calyx membranous, deeply 5 lobed, lobes
spreading, greenish, smooth.

Stamens 5, each filament with
2 sticky glands near base, those
of adjacent stamens adhering &
forming a continuous ring.

Saw no pistil. Guess these are
only staminate.

See fruit.

Fruit No. 198

Paraiso. Bark smooth,
greenish, with numerous brown
lenticeles. Branching (loose).
Cult.

No. 199

Scaly-stiped Adiantum.
In deep woods east of Moyogalpa.

Fruit. No. 200

Coffee. Small spreading tree,
with gray bark, finely long, cracked.
4' or 5' in diam 10' high -
spreading.

Crown spreads 15' in a tree
10' high.

Fruit. No. 201

Cacao. Tree 15' high, 6-7'
diam, erect branching, bark
gray brownish. The fruit
comes from trunk, branches, etc.
everywhere, like the tree gourd.

Quil

Fruit, ^{wood} No. 202

Tree cotton - 12° high.

Seed. No. 203

Guanania - a large-flowered
(purple) Passion-vine (coarse)
Fruit large, rather squash-
looking. Not very good.

Seed. No. 204

Guanávana - (= Annona?)
Fruit covered with conical
^{tubercle} spine-like projections. Does
not pleasant. Cult. Eaten.
Ground leaves used in blood-
vomiting. Small tree, gray smooth
bark.

Seed +
Fruit, No. 205

Milkweed - Pod with very many
smaller tubercles. A vine 15°
No lvs. found.

No. 206

Oenothera?

Petals 4 narrow, yellow = length

Sepals 4 shorter, green, acuminate,

Stamens 4, yellow, alternate,

Anthers 2-celled, imbricate,

Stam. hypog.

Ovary superior, green, 1 celled
somewhat hairy, 2 paricidal

Placentae.

Fruit, No. 207 (looks like sweet clover)

Carria leaved. Said to be used

for making ink. Fine leaflets.

No fls. & no good leaves.

Ernesto Canton thought it had blue
flowers.

Frut. x
seed. No. 208.

Chirca - Small tree with
milky juice. Milk (+ also kernel
of seed) used for tooth-ache.
Breaks tooth -

Frut. no. 209.

Coarse Verbena with deep
purple, rather large flowers.

Frut. no. 210.

Pea with light red seeds.

Found S. East. No fls.
called "crab's-eye". The seeds are made into
necklaces & worn by children in case
of diarrhoea!

Frut. no. 211

Bright blue-berried shrub 8 ft
high. S. East in woods.

No. 212.

Blue flowered Desmodium,
Shrub 1°-2° high.

Collected at foot of mountain

(see 270)

Frut. No. 213

Fine leaved shrub 1°-3° high.

Found only in fruit at base
of volcano (S.W. side)

No. 214.

Notholaena
brachypus J. Sm.

~~Cheilanthes~~ - found on S.W.
slope of mountain. In a
dry gully.

Frut. No. 215

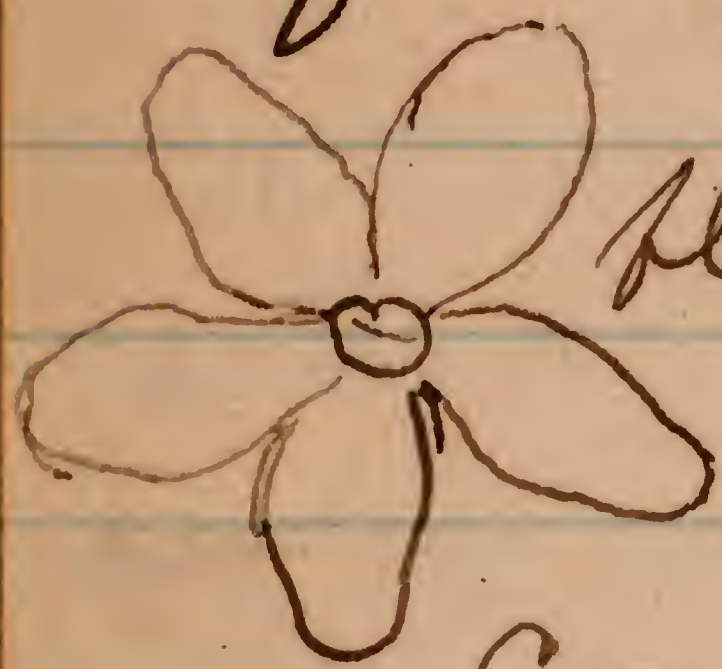
Pea with rounded leaflets
& brown pods. No fls.

Found S.E. near Mt.

Fruit

NO. 216.

A myosurus on a large scale.
At first reminded me of Ochra
Plant coarse, herb, 2°-5° high.
In dry ravine on S.W. slope
of mountain.



Corolla violet

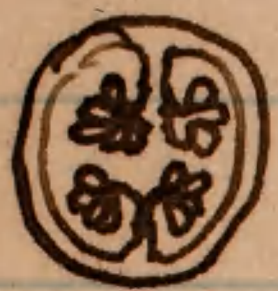
fl x 1. Tube short, 5 lobes
lobes obtuse, ovate

Corolla hairy outside.

Calyx of 5 lance, green hairy
sepals, each with a brown
tip (point.)

Stamens 5, alt, epipet,
filaments purple, lower half
hairy, upper smooth,
anthers brown, versatile,
2 celled, Exserted.

Styles 2 spreading & to stamens
purple, hairy in lower half,
stigmas terminal, green.
Ovary green, hairy superior.



Ovary 1 celled, 2 double
parietal placentae.
Is it 2-celled?

Fruit, No. 217.

Small tree with salmon colored
berries in axile clusters. No fls.
Dry ravine - S.W. slope Mt.

Fruit, No. 218.

Flag-leaved, red berried plant
along dry ravine on S.W. slope
of mountain. No fls.
Grows 2° high

No. 219.

Small flowered (yellow) shrub from
foot of mountain.

Plant hoary, 6° - 20 high.

Flowers in axillary clusters.

Le

Fruit. No. 220

Guasimo melano.

A large tree, Basswood like
in general appearance.

Fruit stuck on a stick is used
by the Indians for mixing "tiste"

Fruit + seed

Rathye No. 221

Large tree with palmate leaves
(about 5 leaflets), with long
twisted, Catappa-like pods.
Leaves are opposite,
No. fls.

Fruit No. 222

Cacao-like fruit. Vine (woody)
quite long. (called Kučaria)

Fruit

No. 223

Woody vine with date-seed-
like fruit (3 lobes).

Fruit, No. 223 a

Small-leaved medium-sized tree
with flat pods (a little like *Cercia*)

Fruit No. 224

Harsh, woody vine with 4 lobed
black fruit.

In dry ravine S.W. of Mt.


Fruit, No. 225

Small tree with brown-gray bark,
red berries, & oblanceolate leaves.
In woods East.

Fruit, No. 226

Wh. flowers, climbing Eupatorium
Woody, East.

Fruit No. 227

Small tree with 3-lobed fruit.
(leaves green (dark) smooth, thick
entire.  fruit 1' in diam.

Fruit. No. 228

White fl. vine in general
appearance something like
no. 122. (This is no. 122
in fruit?)

Fruit seeds.

No. 229

Passion vine. A rather
coarse vine, climbing over a
small tree. Fruit large
green. (Have I seed +
fruit?)

Fruit. no. 230

Woody vine, East.
Brown fruit & compound
leaves of few leaflets.

Fruit. no. 231

Large tree with trunk
like elm. No fls.
East. Sticky hard fruit.

Fruit no. 232

Small tree with black fruit
3 seeded, & like Black Haw
in general appearance

Fruit no. 233 (Polygona like)

Creeping shrub with terminal
spike of red bracted fruit
(these bracts include the one
Δ brown fruit. - No wood E.

No. 234

Yellow mallow with brown center.

Petals unsym. Purple-brown at base. Tall shrub.

Ovary 5-celled. Stamens yellow.

Fruit No. 235

Shrubby (8' high) nettle, with smooth stem, but prickly leaves, etc.

Fruit in branches on the side of nearly base stem (leaves fallen).

No. fls.

Fruit No. 236

Very spiny, hard-friated (small tree?) woody plant with alt. leaves.


The lvs. cordate, acuminate, entire.

Fruit splits up into sections.

no. 237. ✓
Acrostichum alienum Found in
woods east. Not common.

Seed, no. 238.

Mango. Large spreading
tree with drooping branches &
gray, rather smooth bark.
Cult. Fruit edible, the fleshy
part orange.

 fl. x1 Sepals greenish, lance,
acute recurv. 5.


Petals 5, spreading reddish with
brown bases & veins. hygro.

5 fleshy lobes of disc. alternate with petals
& bury (?) ovary.

Ovary smooth, superior, green, style
slender (on one side) stigma small,
terminal.

Stamen 1 (usually anyway) with oblique
filament (not running up straight &
with 2-celled, brown, versatile(?) anther.
Sometimes the one stamen seems to stand
alone in center of flower. 1-celled, 1-ovuled.

Fruit No. 239.

Small flowered, (yellow), spiny-fruited
shrub 1°-6° high.  fl. x 1.

Sepals green, 5, lance-linear,
hairy.

side view of sepal.

Sepals joined at apex + each with a little
fold inside, at apex, which may be
= to petals. Brown at tips of sepals.

Stamens 10, ^{all} yellow, filaments erect,
anthers small, 2-celled, versatile.


Pistil = stamens. Ovary hairy
green, superior. Style smooth
erect green. Stigma small
terminal.

Along roads, etc in wood

no. 240.

Large tree with thick shining,
leaflets (pinnate) + loose


panicle of small greenish
flowers.

Calyx monosep, deeply 5 lobed, smooth,
greenish.  fl. xl.

Corolla of 5 oblong or oblanceolate
petals, acute, smooth, greenish
stamens 10, hypog.

Filaments exserted, yell-green smooth
erect; anthers ~~sessile~~ ^{antherate}, 2-celled, yellow.

Pistil - ovary superior, 5-lobed

 hairy. There are 5 little

hairy lobes come up over the

ovary between it & stamens.

The ovary is smoothish, & green-
yell. Found no style or

stigma. Bark smooth, gray,
with white spots.

No. 241

Sedge found on bank (high)
of Lake Lenth.

2 fruit

No. 242

Plant like tall very slender
goosegrass.

Grows 1°-7° high. Common
everywhere.

No. 243, a red shrub

Weed - Spurge-like.

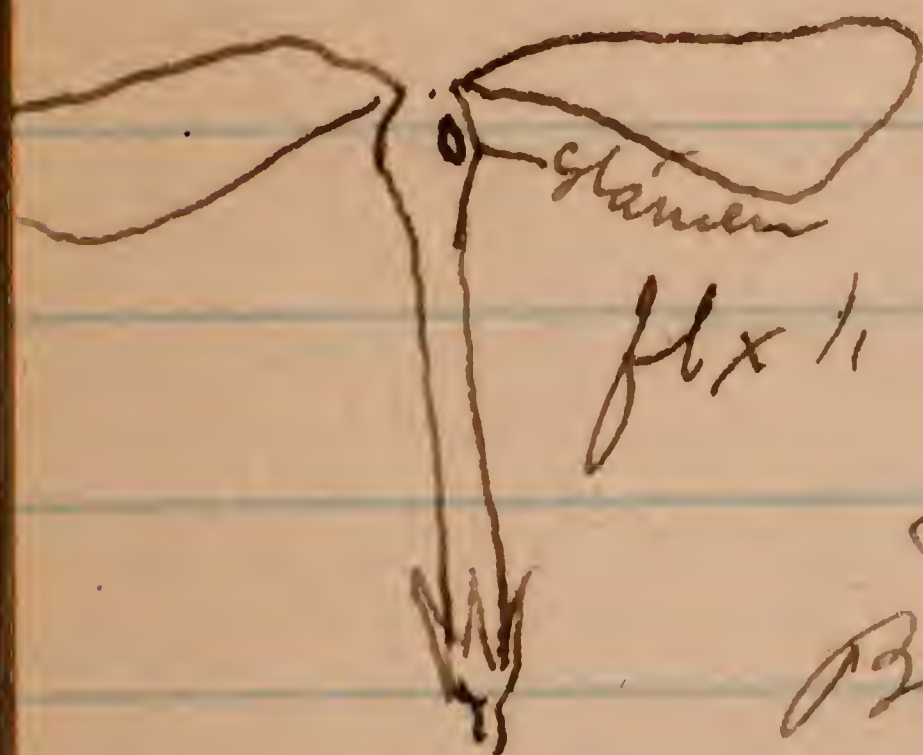
Lvs. 2 ranked, fls. small, in
axillary clusters.

Involute red, with white glands
in sinuses, ovary hairy 3-lobed

Leaves opposite. Rather sharply
3-angled.

No. 244

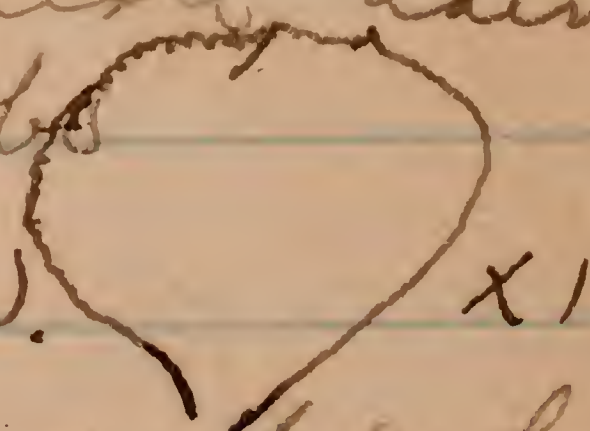
Purple (deep-red) herb found on
streets of Marogalpa, near
lake. (Like Mrs. Jones' specimen)



Calyx deeply 5 lobed
lobes linear acute
green, hairy

Corolla salverform
tube greenish, hairy
Border 5-lobed

Throat deep purp. red.



Throat with circlet of short hairs

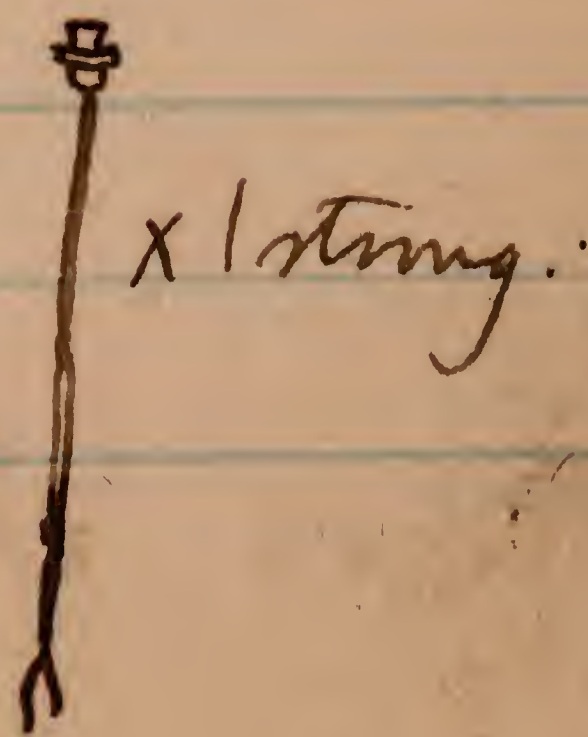
Stamens 5, white, anthers 2 celled
yellow, dehisc. long
stigma just below them

stigma green

Ovary superior

ovary 2-celled (E2)

2 glands (?) narrow, at
base of ovary.



Fruit.

No. 245.

Black-seeded Grass. $1\frac{1}{2}$ ° - 7° tall.
Grows along fences & in wood

Leaves by

No. 246.

Coarse weed (like *Datura*
(strong-scented) with
5-palm. leaves. Roadside ^{10-30" high}

The terminal fl. in each cluster is star.
& has a 5 lobed calyx. The stamens seem
to be quite numerous, on rather short
filaments & with yellow anthers.

The pistil. fls. are below, in each
cluster & have a calyx of 5 green,
lance, upst., rather long

Ovary 3 lobe green, smooth, superior
styles 3, spreading, each with 6
spreading, linear stigmas ***
Ovary 3-celled, each (in fruit) one
seeded.

succ

No. 247

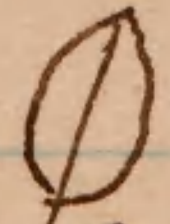
Loose, spreading shrub.
With finely serrate oblance, or oblong
leaves (acutish or obtuse). Lvs. opp.

Fruit.

No. 248.

Achote - Tree - Young fruit
used in soup. Also said to
be used for ink.

Fruit, No. 249.

A tree with brown, somewhat hairy, 9 seeded pod. Leaflets elliptical, acute .

Found out toward St. Jesus Maria

Fruit - No. 250.

Sapote - Large tree.

Fruit orange colored inside (really red) & when soft, very sweet.

Bark gray, trunk straight, in general appearance like the smoother-bark form of White Oak.

Branches not spreading as much as seems to be the rule in these trop. trees. Leaves ob-lance-ovate, thick, dark green above.

No. 251

Gurion - Tree with leaves
like cornuculo (so I was told)
✓ fruit with a sharp point
Eaten by children.

No. 252

Slender white Polygonum - swamp
Same as San Carlos species.

Fruit No. 253

Great tall Composite, yellow, 7' high.

Possibly - (13 + 52 ??)

Rays sterile. Chaff of lanceolate
acute, scarious chaff.

Pappus of a few irregular, ragged,
short white scales.

Disc & rays both deep yellow.

Fruit No. 254

Brown-rod, Camia-like shrub
in Mrs. Cantor's Garden.

(small tree).

No. 255

The shrubby yellow-fl. Comp. Cult

growing by fence across the

street from Riros Not a Comp.

Ovary superior, 3 celled, 3 lobed, smooth.

Style 3. spreading with stigma small.

Style 3, spreading, smooth, stigma ^{small} ~~terminal~~
Petal x1 Petals 5, clawed, smooth, yellow.
Sepals. & claws of petals, green, lance, acute,
scarious margin. Stamens 10, filaments
unequal, yellow. Filaments smooth.
Anthers elong. 2 celled, dehisc long

Fruit. No. 256

The "Vegetable Sponge" (Gourd.)
yellow. flowered. Creeping over
fences at Morogalla,

No. 257. ✓ *formosum.*

Delicate Asplenium - found in
ravine near foot of Mt.
On volcanic rock.

No. 258.

Tree 1° in diam. 30° high. Somewhat branched, branches ascending.

Bark gray, long, roughened (split.)

Flowers wh. abundant. Sweet scented.

For description of flower see under 268. This I was a mistake, called "Laurel," ^{Fls. dried &} used for fevers.

Fruit, No. 259

Very large, spreading-crown, tree

7° in diam. at base. Gray, staly bark. Fruit Plum. like.

No. 260.

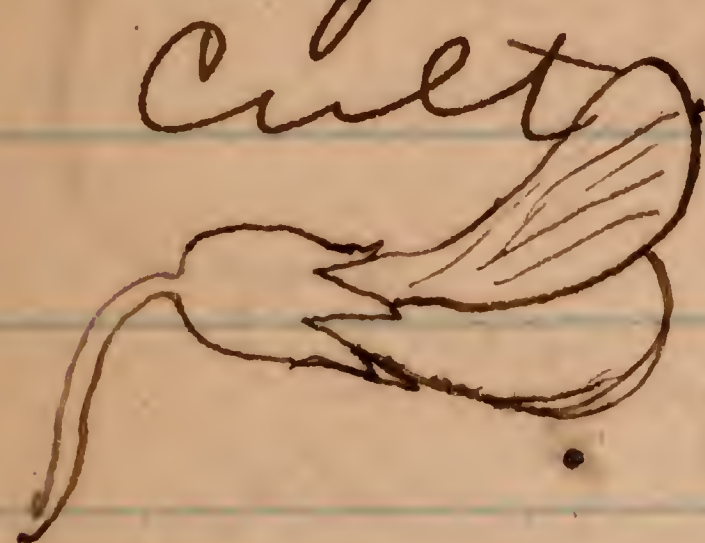
The third "Bejuka" found out S. E. toward mountain.

The leaflets are 3, very coarsely

dentate. Flowers seem to be
much like no. 6.

Fruit no. 261.

"Frijolito" - Shrub 7 ft high.



Standard of the
usual emarginate form
yellow, with numerous dark

red veins, smooth. Honey gland
at its base, between the little spur.
Wings obtuse, smooth, uniform yellow
Keel coherent, light yellow smooth,
enclosing stam. & pist.

Stamens 1 + 9, fil. greenish, smooth,

anther yellow 2-celled, small

Calyx 5 lobed, lobes somewhat
unequal; green, hairy (short.)

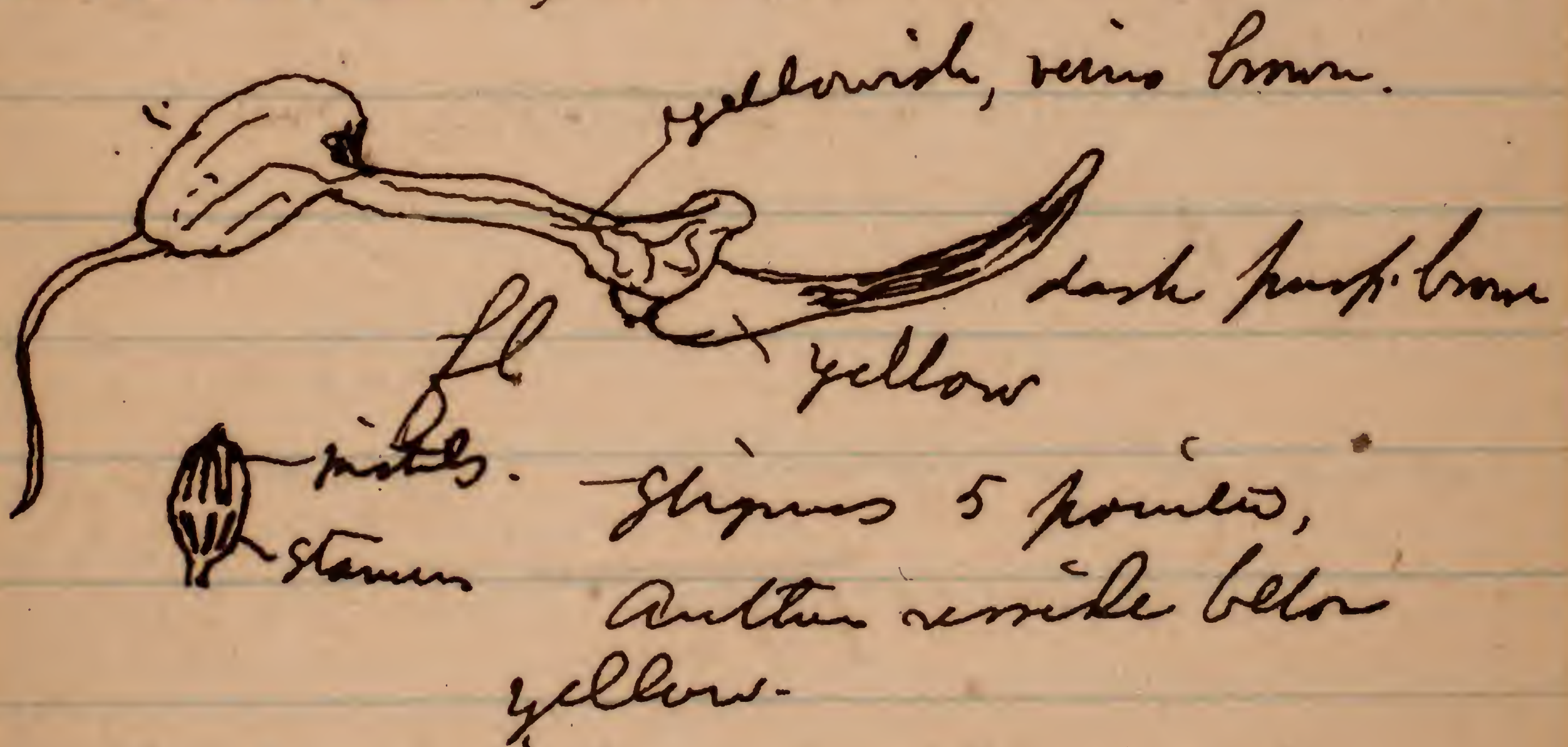
(ovary hairy, purp. green) style white,
with trace of bristles,
stigma small, terminal.

No. 262.

Tree with spreading crown, reddish smooth, "trioisted" bark. In fruit, fruit with spatulate appendage like a persistent petal.

Fruit, No. 263.

Slender vine, 4°-6° - cordate leaves.



Calyx with only the 2 lobes, upper short, lower long. Ovary 6 celled, with numerous ovules.

Fruit no. 264

Tall erect coarse herb, with opp.
petiolate lvs. & white fls.

Eupatorium-like in appearance,
along road East (North)

Fruit no. 265

Tree 8 in diam. dark gray,
smoothish bark. (or large shrub)

Fls. yellowish, in spikes.

* fl. x, Calyx of 5 greenish yellow, ovate,
obtuse apex. spreading.
Fls. almost sessile.

Stamens 8, spreading, filaments short
slender, white, smooth; anthers white & x
innate (?) introrse-looking.

Filaments are confluent with a sort
of thin disc at base.

Ovary 3-lobed, white, superior, smooth
style 3, yellow, spreading, each capped
by an irregular, rather large, whitish stigma
Ovary one-celled (?), one-seeded (?).

Fruit

No. 266.

Slender, prostrate mallow - yellow.

Petals yellow, unguis. (?)

Calyx of 5 cordate green, hairy
sepals, or very deep lobes, with fold
in sinuses.

Ovary smooth, 5-lobed.

Along road in woods east.

Fruit.

No. 267.

Small white mint, fls. in heads.

(see if fruit of this was not passed off
for another species - chepa-like Comp.)

Corolla 2 lipped, both lips ^{hairy, greenish.} ~~upper~~ ^{like narrow, hairy, greenish.}
2 obtuse lobes, lower 3-lobed, white.

Style white, stigma 2 lobed, exserted
& lying on lower lip.

Stamens exserted φ anther in 2 pairs
the 2 lower (as the anthers show)
longer. Anthers yellow 2-celled.

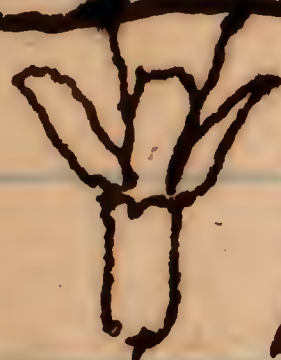
Leaves serrate (coarsely) petiole,
off. hairy.

fruit

no 268

see 258
~~269~~

Small tree, ^{more like siberian crab} ~~somewhat plum-like~~ in
general appearance, springy & with
entire, ovate lvs. in clusters at
ends of branches. ^{fruit shows many seeds} & 2 cells or 2 ~~pericarp~~

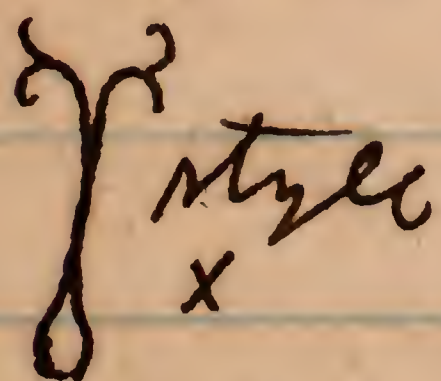


fl. xi.

Calyx tubular, 10-ribbed, rough
green, with 5 small lobes. ^(two Corolla tube)

Corolla monopit, 5 (17 = shape) lobes,
white, smooth.

Stamens 5, alt. filaments wh., exserted,
smooth, bearded at base, attached to
throat of corolla. Anthers 2 celled,
versatile, brown (yellow?).



Style 2 lobed, each stigma
2-lobed, white, smooth.

Ovary smooth, white, superior



4-celled, ^{suggest} ~~one~~ ovules in each cell

Woods east. (~~the fruit pink~~)

Fruit,

No. 269. (~~272?~~)

The climbing Apocynum.
A vine 180 ft long, with very
slender, long pods. No fls.

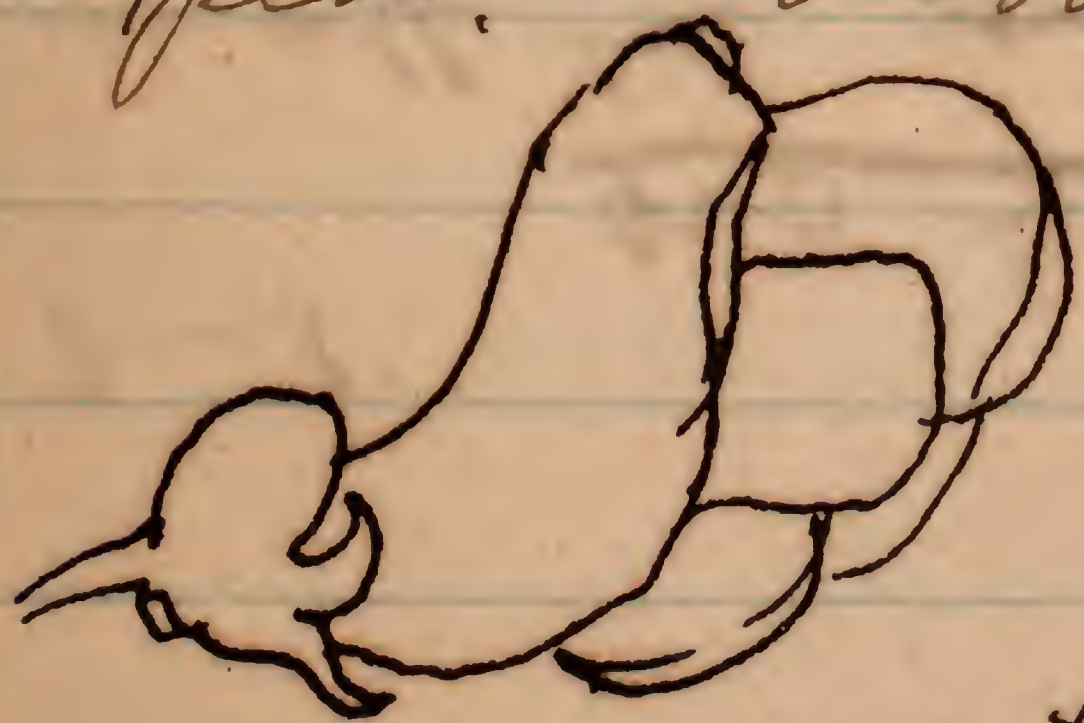
Fruit

No. 270 (= 212?)

Small blue-flowered shrubby
Desmodium. Along road N. East.
About 5 segments to a segment.

No. 271.

Large, yellowish, twisted-keel,
pea. Along road N. East.



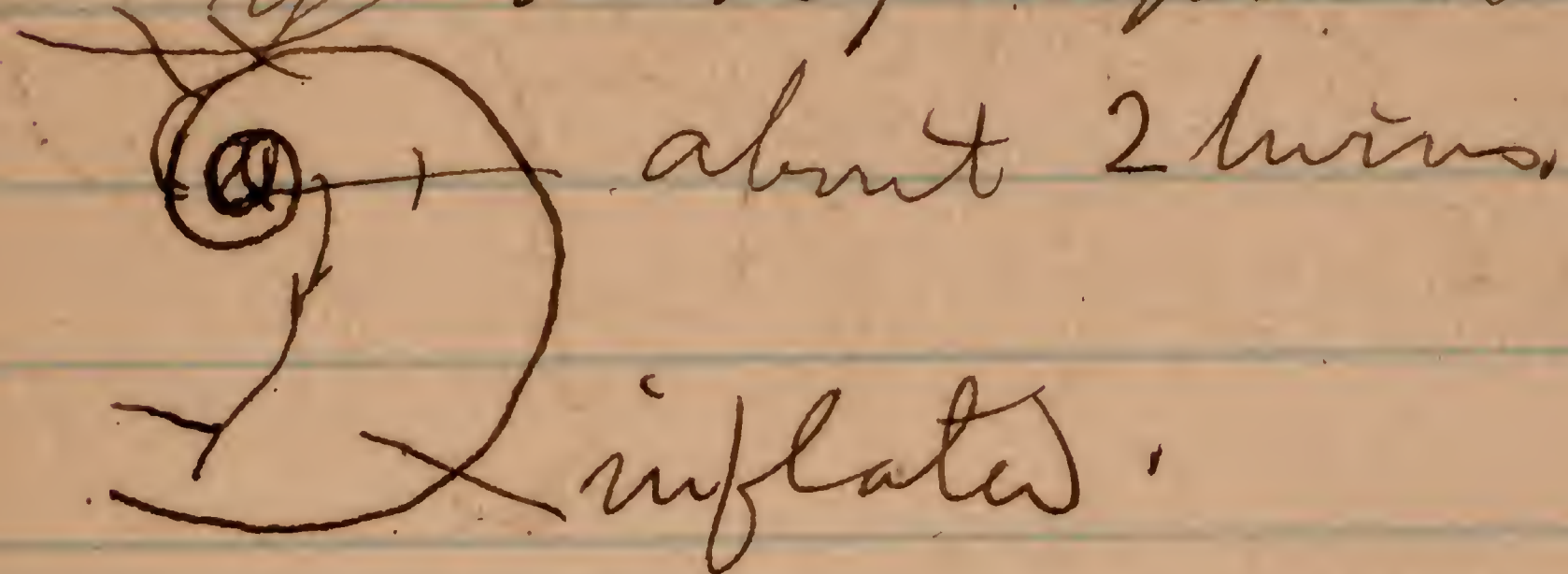
fl. x/ side view

standard yellowish,

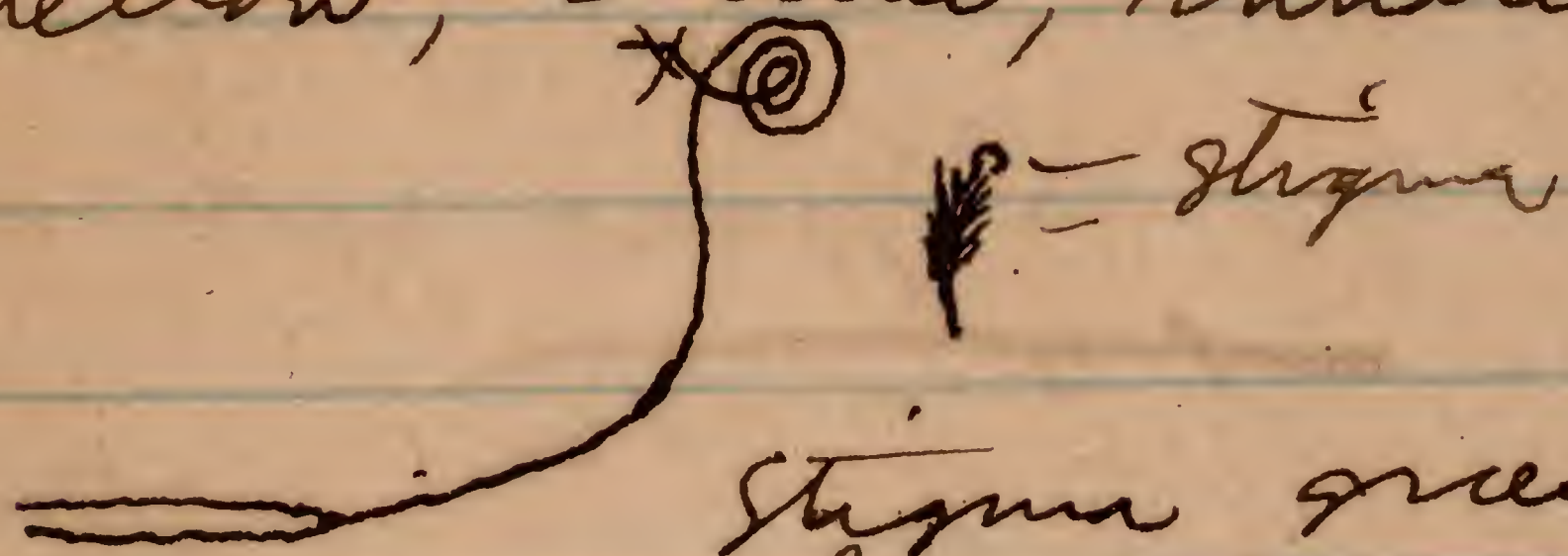
erect, broad, emarginate
truncate, broad.

Wings loosely twisted, not
invited, yellowish, purple toward

ends coherent with keel only at base
Keel twisted, enclosing stam & pist.
yellowish, deeper at apex



Stamens 1+9, filaments white, smooth
spindly twisted in keel, anthers small,
yellow, 2-celled, innate, long.



stigma green, terminal
with heavy brush below it
style slender smooth, white
Pod green, hairy
Brush of hairs partly retrorse.

Fruit, No. 272.

Fruit 3 winged, dry, no fls. or leaves
thick rootstock. On bare rock
in woods N. East.

Fruit, No. 273

"Monkey's Comb." (in Spanish)

A great, long woody vine, extending
up into the top of a very tall
tree. Fruit rough, winged seeds.
No leaves could be reached.

Fruit only.

Fruit

No. 274

Tree with mulberry-like fruit.

Spreading & branching, with
rather smooth, dark gray bark.

No fls. found.

Cult. & along road.

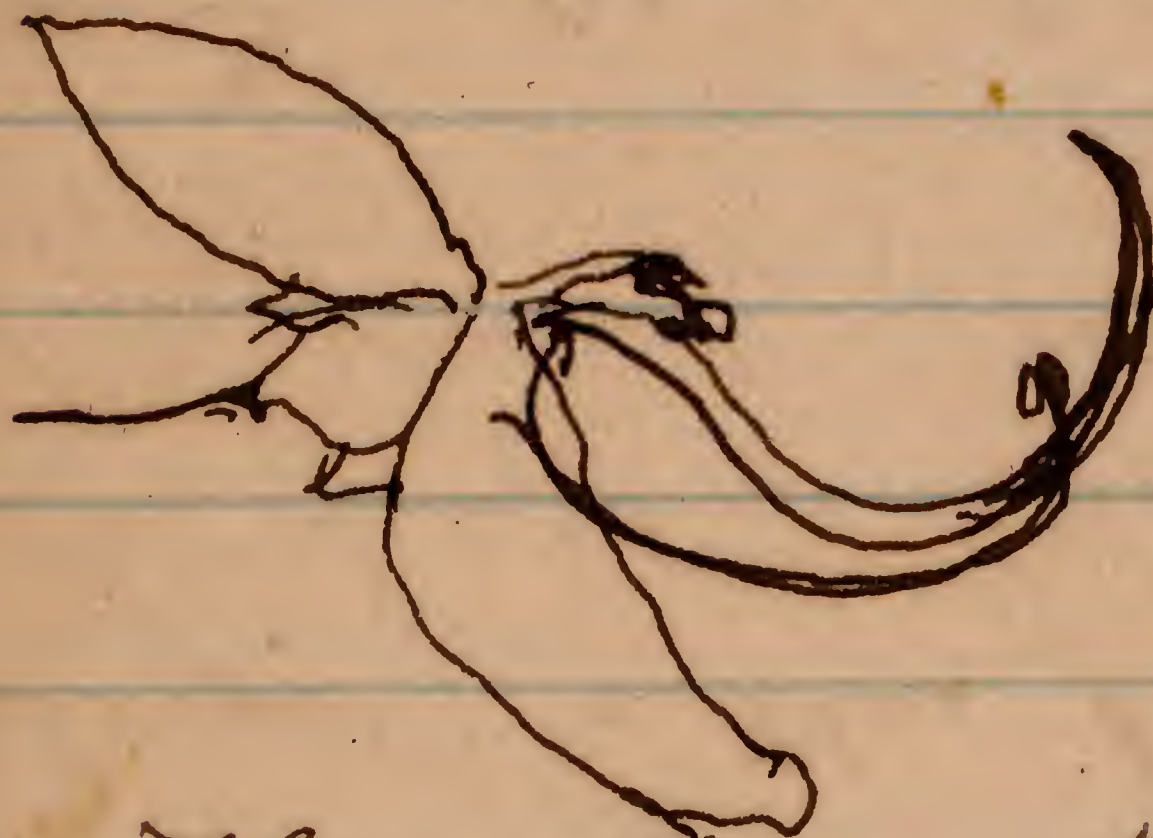
fed to cows.

1 pod.

No. 275

Cassia fistula

Cassia - tree with gray
scaly bark. Racemes drooping,
hence flowers reversed.



ovary
side view of fl.
x 1.

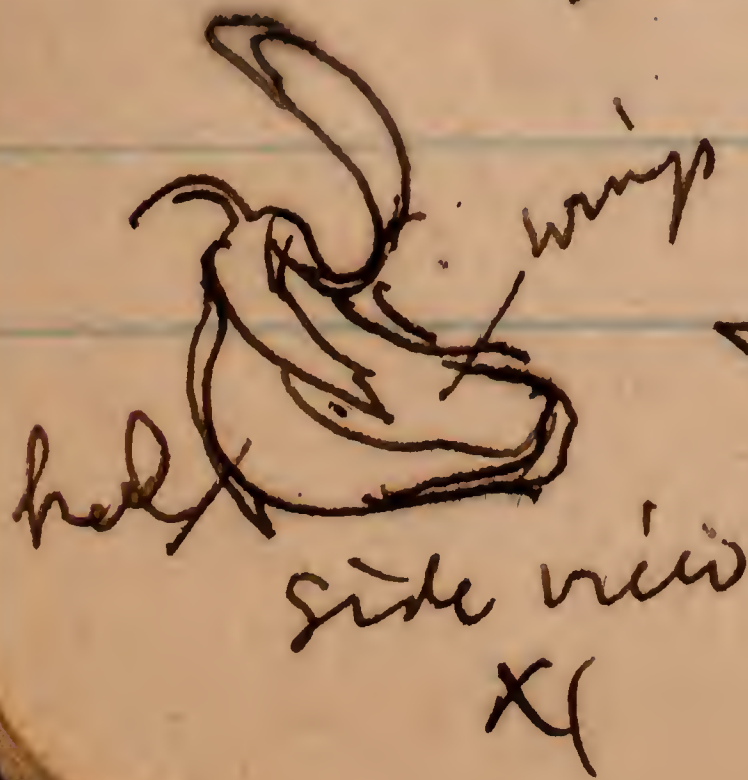
Fl. yellow. petals nearly equal,
acute. Sepals greenish,
reflexed, acute.

Stamen 10, unequal, the 4
lowest long, others short.
Ovary smooth, curved long.

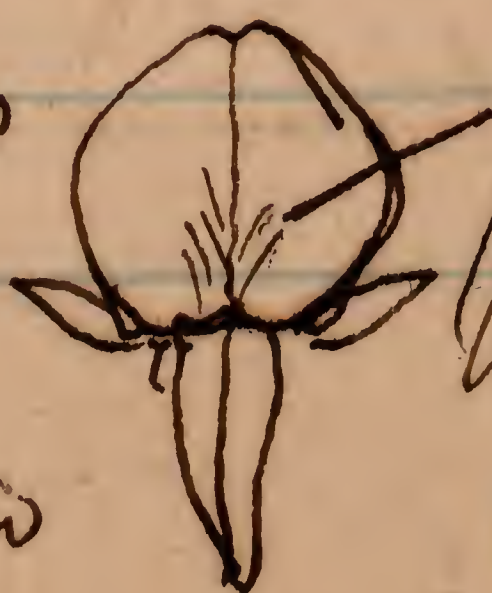
Fruit
seed.

No. 276

The larger yellow Rattle-box (Baptisia)



side view
x 1



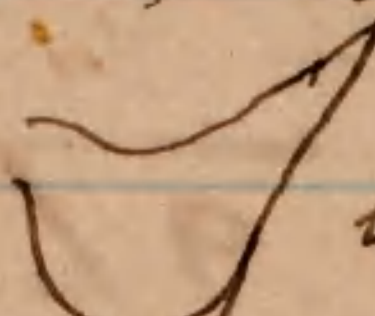
a few very light
purple veins.

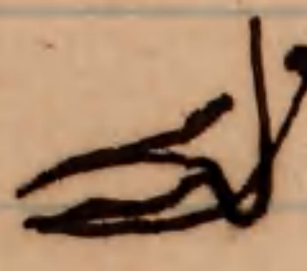
front view.

Caly of 5 greenish
spreading, acute,
lance sepals.

standard erect, light yellow
as are the other parts of Corolla
smooth,

Wings obtuse, rather narrow,

Keel yellowish, coherent, indurated,
stam. & pist.  keel.

 x1 Ovary green, smooth, style
smooth, greenish, stigma small
terminal.

Stamens monadelphous,

The 4 lowest stamens are longer &
have shorter, yellow 2-celled anthers &
the remaining 5 are shorter & have
elongated anthers β , imbricate, yellow.

The long ones remain to mature later.

Stamen 9 - monadelphous -

seed. No. 277.

Papaya - Cultivated.

Good sized tree. See $\frac{1}{2}$ leaf.

erect

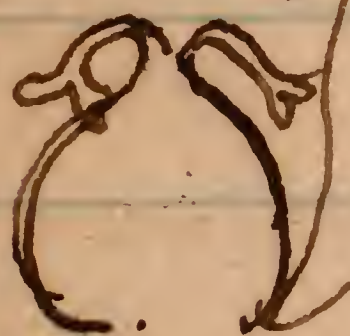
No. 278

The small, native Papaya.

Stam. + pistils on diff. plants. ^{calyx very small, green, 5 parts.}
Pistil. fl. larger, white (yellowish) with
5 twisted, thick obtuse rather narrow
petals, purplish outside.

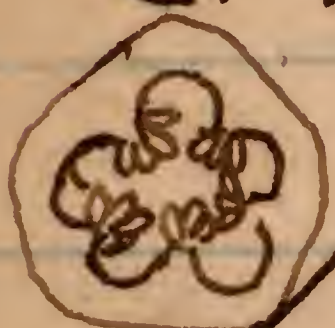
stigmas 5, on short spreading styles, each
2 lobed exserted. yellowish

ovary green, smooth, superior



ovary 1-celled, 5 paricelid

placentae, ovules very many



Stam. fl.

calyx very small

greenish, Corolla

white, monopit, 5-lobed

lobes obtuse

filaments 10, on throat, the alt. ones longer, with
short hairy (filaments), anthers yellow

2 celled in cross, long dehiscence

7 lbs.
sweet-scented.
(like tube roses.)

Fruit: No. 279.

The peculiar somewhat shrubby

6' tall Leaves 5 divided

Plant with 3 lobed smooth

fruit. superior, smooth, 3-lobed

ovary 3-celled, each with

one seed.

Along road 5.

Had a purplish (I believe monoph. & 5-lobed) corolla, but this was lost.

Fruit.

No. 280

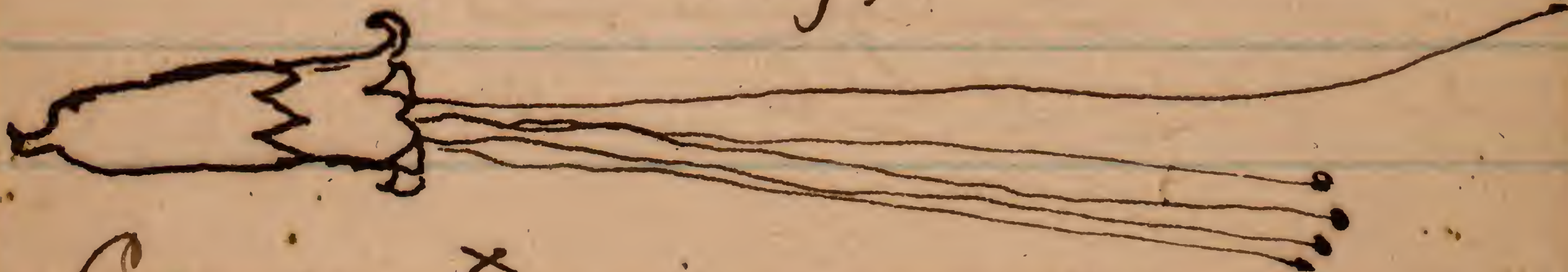
Woody Smilax - climbing
10° or 12° ft.

On spec. only with poor leaves.

No. 281 Guavo

Winged-comp. leaf. Tree of
medium size, gray smooth
bark & branching.

~~Leaves~~ ~~comp. leaf~~, monoph., 5 lobed, lobes
short-hairy, erect, acute, greenish.



Corolla ^xmonoph., green-white, 5 reflexed

acute lobes. Stamens numerous, coherent
in a tube = to corolla, free parts of filaments
long exserted, white, smooth, slender.

Anthers small, yellow, 2-celled.

Tube of stamens coherent with corolla at base.
Ovary superior smooth, whitish, style
very long, slender, white, smooth. Stigma
small, green, capitate.

⑧ Ovary 1-celled, several ovules in parietal
placenta

Fruit. No. 282.

Small black gourd (soft.)

Cult. & wild. Delicate vine.

Stam. & pist. fls. (yellow) on same plant

Ovary smooth, 3 celled, seeds flat,

many.

No. 283.

White Pond Lily. 5 green, lance,
acutish (obtus) sepals, speckled with brown.

Petals about 20, same shape, white.

Stamens 140 or so filament short

flat, anther 2 celled, with connective

stamen X₁ projecting above as a white
point. Introrse, hyaline, small
yellowish



side view of
ovary

top of ovary

Ovary flat (concave) with
 little round button in center.
 About 20 cells, no style,
 stigmatic surface on top.
 Ovules very many.

No. 284

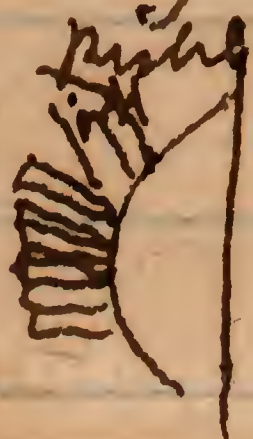
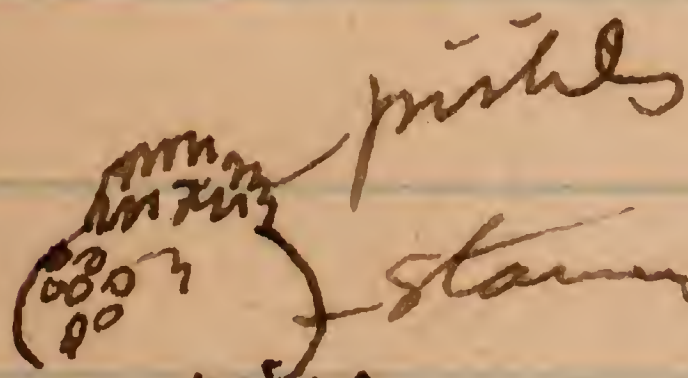
Pontederia - swamp.

Fls. blue (violet) with upper lobe with
 2 yellow spots. Anthers 6 - 3 long
 & 3 very short in this one, style medium
 Fl. hairy outside

No. 285,

Tree with smooth thick leaves, ^{alt.} smooth, gray
 bark, in swamp.

Sepals thick (very) yellowish ~~gray~~, Δ , with
 red spot at base inside. Petals
 smaller, yellow (light) red inside
 except base which is yellow.



Pistils very many, above
 stamens small, 1 series
 stamens ^(2?) smaller, below.

The "stamen" looks like a
 fleshy stigma & style with


52
 42
 32
 22
 12
 08

Slime moulds - Onetepe

1. Small white Physarum.
2. Cornuaria-like
3. Lindbladina (?)
4. Stemonitis (large dark-brown.)
5. Arcyria (like Cinerea)
6. Arcyria (like punicea)
7. Wh. (convolute) Physarum.
8. A sp. on which yellow Plasmodium
9. Little fluffy brown Arcyria (?)
10. Arcyria arspula (?)
11. Scale like yell. Myxom.
12. (a myxom.?) On leaves of no. 31
13. Stemonitis (like fusca)
14. Hemiarcyria (rubiformis?)

still remains?

15 Fuligo on tree east
 16 Stemonitis 30-60 high - lower growths etc. ^{other} _{leaf}
 17 Stemonitis 242
 18 Stemonitis 242
 19 Stemonitis 242
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 100 Stemonitis 242

245. Black-seeded Grass. ^{Roundside}
 246. 5-palm. low over.
 247. Loose, spreading shrubs.
 248. Achote. ^(fruit)
 249. Red-brown pods. ^{Wh.}
 250. Sapote.
 251. Grion. ^(Peanut)
 252. Swamp Polygomon.
 253. Very tall yell. Comp.
 254. Brown pod - Camia low. ^{cult.}
 255. Yell. Comp. Shrub. ^{Ciras}
 256. Vegetable Sponge.
 257. Delicate Asplenium.
 258. Laurel.
 259. Very large tree; fruit ^{Plum like}
 260. 3rd Bejuca
 261. Frijolito
 262. Fruit with spatulate ^{append.}
 263. Vine with 
 264. Eupatorium-like
 265. Small tree, fls. yell. in spikes.
266. Prostrate Mallow ^(small)
 267. Wh. mint; fls. in head.
 268. { Siberian comb like // Plum like small tree
 269. Climbing apocynum
 270. Shrubby Desmodium ^{- 2 1/2'}
 271. Large, twisted pea
 272. 3-winged fruit - on stones
 273. "Monkey's Comb"
 274. Mulberry-like
 275. Cassia fistula. ^{leaf + 1 fl.}
 276. Larger Rattle-box.
 277. Papaya - cult.
 278. " native.
 279. Odd, coarse, 3 lobed fruit.
 280. Woody Smilax
 281. Guava (winged comp. leaf.)
 282. Soft black ground
 283. Wh. Pond Lily
 284. Pontederia
 285. Thick sep. & petals - ^{swamp.} tree
 286. Slender weed like
 242 in gen. appear.

- 205 Very tuberc. milkweed
- 206 *Oenothera* (mt.)
- 207 "Sweet Clover" (mk)
- 208 "Chirca" - ^{milk}poison toothache cure
- 209 Coarse *Verbena*.
- 210 Pea with bright red seed
- 211 Bright blue berry shrub
- 212 *Desmodium*
- 213 Fine leaved shrub (wee)
- 214 *Cheilanthes*
- 215 Pea - ^{brown pods}rounded leaflets
- 216 Large myosurus (*Ochra*)
- 217 Small tree, berries salmon
- 218 "Flag-leaved" plant
- 219 Small fl. yell. shrub. mt.
- 220 *Guasimo* melano "tiste"
- 221 Long podded "Catalpa"
- 222 Vine, - Cacao like fruit
- 223 " - Date seed fruit
- 224 " - 4 lobed black fruit
- 225 Red-berryed small tree.
- 226 Wh. climbing *Eupatorium*
- 227 Small tree - 3 lobed fruit
- 228 Yh. fl. vine (looks like 122 a little)
- 229 Passion apple
- 230 Comp. low vine - brown berries
- 231 - Large tree - sticky fruit
- 232 Small tree, - black 3 seeded fruit
- 233 *Polygonum*-like shrub.
- 234 - Yellow-mallow - brown center
- 235 Shrub - nettle, smooth stem woody.
- 236 Spiny, - hard-fruited fertile shrub
- 237 *Acrostichum*.
- 238 *Manga*.
- 239 Spiny fruited, yell. fl. shrub.
- 240 Comp. shiny-leaved tree,
- 241 Sedge
- 242 Like poor grass
- 243 Spurge-like weed.
- 244 Red fl. (Mrs. Jones')

- | | |
|-----------------------------------|---|
| 163 Pink Eupatorium
volcan | 184 Gymnogramme
volc. = 79. |
| 164 Blue " " | 185 Selaginella - " |
| 165 Wh. " " | 186 Greenish orchid - " |
| 166 Penstemon " " | 187 Hairy plant, with small orange fls. |
| 167 Pink Everlasting " | 188 " " decid. wh. petals, volc. |
| 168 Narrow. lvs., yell. fl. Pea " | 189 Indian Pink " |
| 169 Small Baptisia fruit " | 190 Cleome - Garden |
| 170 "Melbaud"! with pomes! | 191 Cedar Tree " |
| 171 Delicate wh. Polygala " | 192 Wh. fl. vine Ext. |
| 172 Minute, yell. fl. " | 193 Large Pink Eupatorium |
| 173 " red " " | 194 Nephrodium - fern. |
| 174 Very slender red Polygala | 195 3-lobed-fruited vine. |
| 175 Pie-plant like " | 196 - 2-leaved, red-berried herb |
| 176 Quinine foot of wh. | 197 Spiny fruited vine (= San Carlos) |
| 177 Aspidium " | 198 Paraiso. |
| 178 Larger Blechnum (= 181) | 199 Scaly-stemmed Adiantum |
| 179 Narrow, long, Pteris " | 200 Coffee |
| 180 Δ Pteris " | 201 Cacao |
| 181 Small Blechnum (= 178) | 202 Tree cotton |
| 182 Δ Polypodium " | 203 Granarisa |
| 183 Little Δ Asplenium. | 204 Granarisa
(spiny fruited anona) |

This book

- | | |
|---|--|
| <p>123 Small tree ^{HHH} palm-like</p> <p>124 Shrub - "tea" ^{HHH}</p> <p>125 Cordate leaved yell. Mallow ^{HHH}</p> <p>126 "Choke-cherry" ^{HHH}</p> <p>127 Very minute yell. pea ^{HHH}</p> <p>128 Large wh. Solanum. ^{HHH}</p> <p>129 Pink Mallow. ^{HHH}</p> <p>130 Compos. with ^{scale} Samara-like. ^{HHH}</p> <p>131 Cherry-like shrub (Jack) ^{HHH}</p> <p>132 Phryma-like; reflexed ^{HHH}</p> <p>133 Wh. hairy morning gl. ^{HHH}</p> <p>134 Shrub with ^{small, swamp} purple fls. ^{HHH}</p> <p>135 Yell. pea - pithy base. ^{HHH}</p> <p>136 Wh. Eupatorium - ^{connate} ^{perfol.} ^{HHH}</p> <p>137 Fine weed. ^{HHH}</p> <p>138 Eclipta ^{HHH}</p> <p>139 Red & yell. Mistlewood ^{HHH}</p> <p>140 Tree, cherry-like ^{HHH}</p> <p>141 Weed, 3 lob. - ^{swamp} bar-like. ^{HHH}</p> <p>142 Prickly pink Mallow ^{HHH}</p> | <p>143 Water Cabbage ^{HHH}</p> <p>144 Coarse mint, 1 lobe. ^{HHH}</p> <p>145 Galium-like, swamp. ^{HHH}</p> <p>146. Rev-hot Poker. ^{HHH}</p> <p>147 Wh. waxy-fl. vine - Lake shore ^{HHH}</p> <p>148 Polygodium (like San Carlos) ^{HHH}</p> <p>149 Greenish fls. - woody vine. ^{HHH}</p> <p>150 Comp. like small ficus. ^{HHH}</p> <p>151 White Orchid ^{HHH}</p> <p>152 Pink fl. shrub - Volcano. ^{HHH}</p> <p>153 Orange Orchid ^{HHH}</p> <p>154 Small, 4 petals, pink ^{base} ^{HHH}</p> <p>155 Phlox-like ^{HHH}</p> <p>156 Cud-weed ^{HHH}</p> <p>157 Bear-berry ^{HHH}</p> <p>158 Small, yell. comp. ^{HHH}</p> <p>159 Bright-blue berry ^{HHH}</p> <p>160 Hairy-pod Pea ^{HHH}</p> <p>161 Galium-like (C.) ^{HHH}</p> <p>162 Small Comp. (little fireweed) ^{HHH}</p> |
|---|--|

- | | |
|---|--------------------------------------|
| 81 Large yell. Morn. Glory
Fls. IIII | 102 Lobelia like Comp.
II (= 44?) |
| 82 Very long " "
Large IIII | 103 Small fl. Cassia
III |
| 83 Shrubby Pink Oklahoma
III | 104 Soft gourd (cult)
II |
| 84 Spring tree like 83.
III | 105 Gourd-tree
II |
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III | 106 Anona (Steiner) |
| 86 Mentzelia
(fruit only) | 107 Sweet lime
Fls. III |
| 87 Tuberculate milkweed
III | 108 Yellow orchid.
mt. 3/1 |
| 88 Fluted "
Fr. II | 109 Delicate pea-vine
III |
| 89 Bixa
" Fr. IIII Fl. IIII | 110 Flow. Gln.
III III III |
| 90 Bass-wood - Castor bean
III | 111 Straw Composite
III III |
| 91 Vine 2 curved pods.
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II | 113 Solanum (Steiner) |
| 93 Red fruited, palm-leaves.
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III |
| 94 Rat-tail "
II | 115 Little Ground Cherry
III III |
| 95 Jacaro
III | 116 Phryma like?
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| 96 Liche del diablo
II | 117 Wh. Straw fl. in heads
III |
| 97 Inflated pod, Green "Carr"
III | 118 Disc-bearing plant. |
| 98 Myosurus. | 119 = 54 (?) 6 lobed wh.
III II |
| 99 Mint (= Verbena)
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III |
| 100 Anona (Canton) | 121 Flat-stem Grape
III |
| 101 a bar of 29 | 122 Rumex like Vine |

41. ~~Yucca~~ ^{Agave} ~~sp. 111~~ 76. ~~111~~ 111
 42. Cassia lewipes ~~111~~
 43. Ficus like (stems) ~~111~~
 44. Cassia "chamissoi" ~~111~~ Mt. 11
 45. Pea - 2 seeded brown pods ~~111~~
 46. Shrub, bright red fl. ~~111~~ ^{extending}
 47. Composite ~~111~~
 48. Hoary pea ~~111~~
 49. Groundsman like vine ~~111~~
 50. Oxalis like, yellow. ~~111~~
 51. Agave ~~111~~
 52. Yell. Comp. (= 1/3) ~~111~~
 53. Charpa like Comp. ~~111~~
 54. Small hairy wh. fl. w. ~~111~~ = 119(2)
 55. 5 leaf. Morn. Glory ~~111~~
 56. Pea with narrow lvs. ~~111~~
 57. Large purple Morn. Gl. ~~111~~
 58. Cornelia ~~111~~
 59. Madera ~~111~~
 60. Astragalus (?) ~~111~~

61. Minute yell. morn. Glory ~~111~~
 62. Chilmeate (like no. 6. ~~111~~
 63. Inflated pink + wh. corolla ~~111~~
 64. Oblique wh. pea All. Pt. ~~111~~
 65. Big Aquatic Cassia ~~111~~
 Little Blue ~~111~~
 66. Coarse mint. ~~111~~
 67. Prostrate 4-leaf. Cassia ~~111~~
 68. Coarse mint. ~~111~~
 69. Indigo plant. ~~111~~
 70. "Poison prickly" - shiny w. ~~111~~
 71. Ochra. ~~111~~
 72. Garlic Bignonia ~~111~~
 73. Red & black berry. ~~111~~
 74. Yellow Mallow. ~~111~~
 75. Hairy Cassia ~~111~~
 76. "African" ~~111~~
 77. Delicate Adiantum ~~111~~
 78. Large " ~~111~~
 79. Wh. Gymnogramma ~~111~~ 184.
 80. Green "

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- 3- Moropology - ~~yellow~~ ^{Casnia} ~~compos~~
- 4- Archery - Casnia
- 5- Datura -
- 6- Vine with small wh. fl.
- 7- Yellow Bignonia
- 8- Alder-like
- 9- Cornusuelo.
- 10- Small yell. Composite
- 11- Red Samara
- 12- ^{Roots -} ~~Brunella-like~~
- 13- ^{= 522} ~~Courier~~ yell. Compos.
- 14- Wh. milkweed.
- 15- Large Pea.
- 16- Pea with ^{very} hairy pod.
- 17- Climb. milkweed - smooth.
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- 25- Wh. Eupatorium
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- 27- Monkey flower
- 28- Purp. Eupatorium
- 29- "Screw-propeller"
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- 30- Tree at cemetery
- 31- Leafless tree
- 32- Wh. fl. in axil. clusters
- 33- Very light yellow, ciliate
- 34- Hombre grande
- 35- Smooth Casnia
- 36- Wh. comp. shrub
- 37- Minute Pea
- 38- Wh. mallow
- 39- Silky, cordate, vine
- 40- Stellate pods.

other leaf.

Riv & Yell. milkweed
Large wh. Solanum.

Fern (large) (?)

Bright-red fl. shrub (sterile)

Pink fl. Eupatorium (mountain) (?)

Banana-plant.

Botanical Notes.
Nicaraguan Expedition.
1892.

Yell. shrub mallow

Blue mint.

Chelidonium

Elder-berry like (one of last)

Scaly adiantum

Orbita like Comp

Large yell. Morning gl.

Spiny-fruited (San Carlos)

Grass-like

Morning wh. Eupatorium

"Large Pea"

3 lobed seed (Vine)

Very large-fl. Verbena (?)

Pale Convolvulus ?

Small wh fl. Mint (or heads)

White composite (small round heads) ?

Ficus-like stem ?

